



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
SANDUSKY COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 03-13450

DATE: 7/10/2001

Crown Battery Manufacturing Company
Robert Michael
990 1445 Majestic Drive
Fremont, OH 434200990

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

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

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

Very truly yours,

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

cc: USEPA

NWDO



**Permit To Install
Terms and Conditions**

**Issue Date: 7/10/2001
Effective Date: 7/10/2001**

FINAL PERMIT TO INSTALL 03-13450

Application Number: 03-13450
APS Premise Number: 0372030089
Permit Fee: **\$4800**
Name of Facility: Crown Battery Manufacturing Company
Person to Contact: Robert Michael
Address: 990 1445 Majestic Drive
Fremont, OH 434200990

Location of proposed air contaminant source(s) [emissions unit(s)]:
**1445 Majestic Drive
Fremont, Ohio**

Description of proposed emissions unit(s):
lead acid battery manufacturing.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

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

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

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

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

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

Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

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

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. Best Available Technology

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

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

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Issued: 7/10/2001

Facility ID: 0372030089

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	4.33
Pb	2.1

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P016 - Grid casting machine #1 serviced by lead melting pot #1	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK. Use of Baghouse (see A.2.a) 0.10 lbs particulate emissions (PE)/hr, 0.44 tons PE/yr (see A.2.b & A.2.c) 0.05 lb lead (Pb)/hr, 0.22 ton Pb/yr
	40 CFR Part 60 Subpart KK	See A.2.d & A.2.e.
	OAC rule 3745-17-07(A)	See A.2.f.
	OAC rule 3745-17-11(B)	See A.2.f.

2. Additional Terms and Conditions

- 2.a Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b The particulate emission limitation is inclusive of lead emissions.
- 2.c The emission limitation established represents the combined allowable for emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027 and P028.
- 2.d The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 0.54 milligram/dry standard cubic meter (0.000238 grains per dry

standard cubic foot).

- 2.e The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

- 1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.10 lb PE/hr, 0.44 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.05 lb Pb/hr, 0.22 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by

multiplying the outlet grain loading of 0.000238 gr/dscf by the maximum volumetric air flow rate of 25,000 acfm, then multiplying by 60 min/hour and dividing by 7000 gr/lb. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 0.000238 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P017 - Grid casting machines #2&3 serviced by lead melting pot #2	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK. Use of Baghouse (see A.2.a) 0.10 lbs particulate emissions (PE)/hr, 0.44 tons PE/yr (see A.2.b & A.2.c) 0.05 lb lead (Pb)/hr, 0.22 ton Pb/yr
	40 CFR Part 60 Subpart KK	See A.2.d & A.2.e.
	OAC rule 3745-17-07(A)	See A.2.f.
	OAC rule 3745-17-11(B)	See A.2.f.

2. Additional Terms and Conditions

- 2.a Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b The particulate emission limitation is inclusive of lead emissions.
- 2.c The emission limitation established represents the combined allowable for emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027 and P028.

- 2.d** The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 0.54 milligram/dry standard cubic meter (0.000238 grains per dry standard cubic foot).
- 2.e** The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

Crown Battery Manufacturing Company

PTI Application: 03-13450

Issued

Facility ID: 0372030089

Emissions Unit ID: P017

- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

- 1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.10 lb PE/hr, 0.44 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.05 lb Pb/hr, 0.22 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.000238 gr/dscf by the maximum outlet flow rate of 25,000 acfm, then multiplying by 60 min/hour and dividing by 7000 gr/lb. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 0.000238 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P018 - Grid casting machines #4&5 serviced by lead melting pot #3	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK. Use of Baghouse (see A.2.a) 0.10 lbs particulate emissions (PE)/hr, 0.44 tons PE/yr (see A.2.b & A.2.c) 0.05 lb lead (Pb)/hr, 0.22 ton Pb/yr
	40 CFR Part 60 Subpart KK	See A.2.d & A.2.e.
	OAC rule 3745-17-07(A)	See A.2.f.
	OAC rule 3745-17-11(B)	See A.2.f.

2. Additional Terms and Conditions

- 2.a Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b The particulate emission limitation is inclusive of lead emissions.
- 2.c The emission limitation established represents the combined allowable for emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027 and P028.

- 2.d** The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 0.54 milligram/dry standard cubic meter (0.000238 grains per dry standard cubic foot).
- 2.e** The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

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- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
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- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

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Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
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 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.10 lb PE/hr, 0.44 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.05 lb Pb/hr, 0.22 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.000238 gr/dscf by the maximum outlet flow rate of 25,000 acfm, then multiplying by 60 min/hour and dividing by 7000 gr/lb. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 0.000238 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P019 - Grid casting machines #6&7 serviced by lead melting pot #4	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK.
		Use of Baghouse (see A.2.a)
		0.10 lbs particulate emissions (PE)/hr, 0.44 tons PE/yr (see A.2.b & A.2.c)
		0.05 lb lead (Pb)/hr, 0.22 ton Pb/yr
	40 CFR Part 60 Subpart KK	See A.2.d & A.2.e.
	OAC rule 3745-17-07(A)	See A.2.f.
	OAC rule 3745-17-11(B)	See A.2.f.

2. Additional Terms and Conditions

- Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- The particulate emission limitation is inclusive of lead emissions.
- The emission limitation established represents the combined allowable for emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027 and P028.

- 2.d** The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 0.54 milligram/dry standard cubic meter (0.000238 grains per dry standard cubic foot).
- 2.e** The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.10 lb PE/hr, 0.44 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.05 lb Pb/hr, 0.22 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.000238 gr/dscf by the maximum outlet flow rate of 25,000 acfm, then multiplying by 60 min/hour and dividing by 7000 gr/lb. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 0.000238 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P020 - Grid casting machines #8&9 serviced by lead melting pot #5	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK. Use of Baghouse (see A.2.a) 0.10 lbs particulate emissions (PE)/hr, 0.44 tons PE/yr (see A.2.b & A.2.c) 0.05 lb lead (Pb)/hr, 0.22 ton Pb/yr
	40 CFR Part 60 Subpart KK	See A.2.d & A.2.e.
	OAC rule 3745-17-07(A)	See A.2.f.
	OAC rule 3745-17-11(B)	See A.2.f.

2. Additional Terms and Conditions

- 2.a Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b The particulate emission limitation is inclusive of lead emissions.
- 2.c The emission limitation established represents the combined allowable for emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027 and P028.

- 2.d** The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 0.54 milligram/dry standard cubic meter (0.000238 grains per dry standard cubic foot).
- 2.e** The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.10 lb PE/hr, 0.44 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.05 lb Pb/hr, 0.22 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.000238 gr/dscf by the maximum outlet flow rate of 25,000 acfm, then multiplying by 60 min/hour and dividing by 7000 gr/lb. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

Crown Battery Manufacturing Company

PTI Application: 02 12450

Issued

Facility ID: 0372030089

Emissions Unit ID: P020

- c. Emission Limitation: 0.000238 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P021 - Grid casting machines #10 serviced by lead melting pot #6	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK.
		Use of Baghouse (see A.2.a)
		0.10 lbs particulate emissions (PE)/hr, 0.44 tons PE/yr (see A.2.b & A.2.c)
		0.05 lb lead (Pb)/hr, 0.22 ton Pb/yr
	40 CFR Part 60 Subpart KK	See A.2.d & A.2.e.
	OAC rule 3745-17-07(A)	See A.2.f.
	OAC rule 3745-17-11(B)	See A.2.f.

2. Additional Terms and Conditions

- 2.a Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b The particulate emission limitation is inclusive of lead emissions.
- 2.c The emission limitation established represents the combined allowable for emissions units

P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027 and P028.

- 2.d** The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 0.54 milligram/dry standard cubic meter (0.000238 grains per dry standard cubic foot).
- 2.e** The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,

- ii. for Pb–Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.10 lb PE/hr, 0.44 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum

operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.05 lb Pb/hr, 0.22 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.000238 gr/dscf by the maximum outlet flow rate of 25,000 acfm, then multiplying by 60 min/hour and dividing by 7000 gr/lb. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 0.000238 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P022 - Grid casting machines #11,12 &13 serviced by lead melting pot #7	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK. Use of Baghouse (see A.2.a) 0.10 lbs particulate emissions (PE)/hr, 0.44 tons PE/yr (see A.2.b & A.2.c) 0.05 lb lead (Pb)/hr, 0.22 ton Pb/yr
	40 CFR Part 60 Subpart KK	See A.2.d & A.2.e.
	OAC rule 3745-17-07(A)	See A.2.f.
	OAC rule 3745-17-11(B)	See A.2.f.

2. Additional Terms and Conditions

- 2.a Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b The particulate emission limitation is inclusive of lead emissions.
- 2.c The emission limitation established represents the combined allowable for emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027 and P028.

- 2.d** The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 0.54 milligram/dry standard cubic meter (0.000238 grains per dry standard cubic foot).
- 2.e** The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

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Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.10 lb PE/hr, 0.44 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.05 lb Pb/hr, 0.22 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.000238 gr/dscf by the maximum outlet flow rate of 25,000 acfm, then multiplying by 60 min/hour and dividing by 7000 gr/lb. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 0.000238 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P023 - Industrial grid casting machines #1&2 serviced by lead melting pot #21	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK. Use of Baghouse (see A.2.a) 0.10 lbs particulate emissions (PE)/hr, 0.44 tons PE/yr (see A.2.b & A.2.c) 0.05 lb lead (Pb)/hr, 0.22 ton Pb/yr
	40 CFR Part 60 Subpart KK	See A.2.d & A.2.e.
	OAC rule 3745-17-07(A)	See A.2.f.
	OAC rule 3745-17-11(B)	See A.2.f.

2. Additional Terms and Conditions

- 2.a Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b The particulate emission limitation is inclusive of lead emissions.
- 2.c The emission limitation established represents the combined allowable for emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027 and P028.

- 2.d** The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 0.54 milligram/dry standard cubic meter (0.000238 grains per dry standard cubic foot).
- 2.e** The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.10 lb PE/hr, 0.44 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.05 lb Pb/hr, 0.22 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.000238 gr/dscf by the maximum outlet flow rate of 25,000 acfm, then multiplying by 60 min/hour and dividing by 7000 gr/lb. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 0.000238 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P024 - Industrial grid casting machine #3 serviced by lead melting pot #22	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK.
		Use of Baghouse (see A.2.a)
		0.10 lbs particulate emissions (PE)/hr, 0.44 tons PE/yr (see A.2.b & A.2.c)
		0.05 lb lead (Pb)/hr, 0.22 ton Pb/yr
	40 CFR Part 60 Subpart KK	See A.2.d & A.2.e.
	OAC rule 3745-17-07(A)	See A.2.f.
	OAC rule 3745-17-11(B)	See A.2.f.

2. Additional Terms and Conditions

- 2.a Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b The particulate emission limitation is inclusive of lead emissions.
- 2.c The emission limitation established represents the combined allowable for emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027 and P028.

- 2.d** The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 0.54 milligram/dry standard cubic meter (0.000238 grains per dry standard cubic foot).
- 2.e** The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.10 lb PE/hr, 0.44 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.05 lb Pb/hr, 0.22 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.000238 gr/dscf by the maximum outlet flow rate of 25,000 acfm, then multiplying by 60 min/hour and dividing by 7000 gr/lb. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 0.000238 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P025 - Industrial grid casting machine #4 serviced by lead melting pot #23	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK.
		Use of Baghouse (see A.2.a)
		0.10 lbs particulate emissions (PE)/hr, 0.44 tons PE/yr (see A.2.b & A.2.c)
		0.05 lb lead (Pb)/hr, 0.22 ton Pb/yr
	40 CFR Part 60 Subpart KK	See A.2.d & A.2.e.
	OAC rule 3745-17-07(A)	See A.2.f.
	OAC rule 3745-17-11(B)	See A.2.f.

2. Additional Terms and Conditions

- 2.a Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b The particulate emission limitation is inclusive of lead emissions.
- 2.c The emission limitation established represents the combined allowable for emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027 and P028.

- 2.d The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 0.54 milligram/dry standard cubic meter (0.000238 grains per dry standard cubic foot).
- 2.e The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.10 lb PE/hr, 0.44 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.05 lb Pb/hr, 0.22 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.000238 gr/dscf by the maximum outlet flow rate of 25,000 acfm, then multiplying by 60 min/hour and dividing by 7000 lb/gr. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 0.000238 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P026 - Small parts hand pour casting machines serviced by lead melting pot #11	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK. Use of Baghouse (see A.2.a) 0.10 lbs particulate emissions (PE)/hr, 0.44 tons PE/yr (see A.2.b & A.2.c) 0.094 lb lead (Pb)/hr, 0.41 ton Pb/yr
	40 CFR Part 60 Subpart KK	See A.2.d & A.2.e.
	OAC rule 3745-17-07(A)	See A.2.f.
	OAC rule 3745-17-11(B)	See A.2.f.

2. Additional Terms and Conditions

- 2.a Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b The particulate emission limitation is inclusive of lead emissions.
- 2.c The emission limitation established represents the combined allowable for emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027 and P028.

- 2.d** The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 1.0 milligram/dry standard cubic meter (0.00044 grains per dry standard cubic foot).
- 2.e** The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
 DAPC - Permit Management Unit
 P.O. Box 163669
 Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
 Northwest District Office
 Division of Air Pollution Control
 347 North Dunbridge Road
 Bowling Green, Ohio 43402

E. Testing Requirements

1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.10 lb PE/hr, 0.44 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.05 lb Pb/hr, 0.22 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.000238 gr/dscf by the maximum outlet flow rate of 25,000 acfm, then multiplying by 60 min/hour and dividing by 7000 lb/gr. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 0.00044 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P027 - Small parts automatic casting machines serviced by lead melting pot #12	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK. Use of Baghouse (see A.2.a) 0.10 lbs particulate emissions (PE)/hr, 0.44 tons PE/yr (see A.2.b & A.2.c) 0.094 lb lead (Pb)/hr, 0.41 ton Pb/yr
	40 CFR Part 60 Subpart KK	See A.2.d & A.2.e.
	OAC rule 3745-17-07(A)	See A.2.f.
	OAC rule 3745-17-11(B)	See A.2.f.

2. Additional Terms and Conditions

- 2.a Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b The particulate emission limitation is inclusive of lead emissions.
- 2.c The emission limitation established represents the combined allowable for emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027 and P028.

- 2.d** The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 1.0 milligram/dry standard cubic meter (0.00044 grains per dry standard cubic foot).
- 2.e** The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.10 lb PE/hr, 0.44 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.05 lb Pb/hr, 0.22 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.000238 gr/dscf by the maximum outlet flow rate of 25,000 acfm, then multiplying by 60 min/hour and dividing by 7000 lb/gr. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 0.00044 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P028 - Lead stick casting machine serviced by lead melting pot #13	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK. Use of Baghouse (see A.2.a) 0.10 lbs particulate emissions (PE)/hr, 0.44 tons PE/yr (see A.2.b & A.2.c) 0.094 lb lead (Pb)/hr, 0.41 ton Pb/yr
	40 CFR Part 60 Subpart KK	See A.2.d & A.2.e.
	OAC rule 3745-17-07(A)	See A.2.f.
	OAC rule 3745-17-11(B)	See A.2.f.

2. Additional Terms and Conditions

- 2.a** Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b** The particulate emission limitation is inclusive of lead emissions.
- 2.c** The emission limitation established represents the combined allowable for emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027 and P028.

- 2.d** The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 1.0 milligram/dry standard cubic meter (0.00044 grains per dry standard cubic foot).
- 2.e** The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.10 lb PE/hr, 0.44 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.05 lb Pb/hr, 0.22 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.000238 gr/dscf by the maximum outlet flow rate of 25,000 acfm, then multiplying by 60 min/hour and dividing by 7000 lb/gr. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 0.00044 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P029 - Paste mixer #1	OAC rule 3745-31-05(A)(3) 40 CFR Part 60 Subpart KK OAC rule 3745-17-07(A) OAC rule 3745-17-11(B)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK. Use of Baghouse (see A.2.a) 0.38 lb particulate emissions (PE)/hr, 1.66 tons PE/yr (see A.2.b & A.2.c) 0.19 lb lead (Pb)/hr, 0.80 ton Pb/yr See A.2.d & A.2.e. See A.2.f. See A.2.f.

2. Additional Terms and Conditions

- 2.a Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b The particulate emission limitation is inclusive of lead emissions.
- 2.c The emission limitation established represents the combined allowable for emissions units P029 and P030.

- 2.d The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 1.0 milligram/dry standard cubic meter (0.00044 grains per dry standard cubic foot).
- 2.e The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
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Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.38 lb PE/hr, 1.66 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.19 lb Pb/hr, 0.80 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.00044 gr/dscf by the maximum outlet flow rate of 50,000 acfm, then multiplying by 60 min/hour and dividing by 7000 gr/lb. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

Crown Battery Manufacturing Company

PTI Application: 03 13450

Issued

Facility ID: 0372030089

Emissions Unit ID: **P029**

- c. Emission Limitation: 0.00044 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P030 - Paste mixer #2	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK.
		Use of Baghouse (see A.2.a)
		0.38 lb particulate emissions (PE)/hr, 1.66 tons PE/yr (see A.2.b & A.2.c)
	40 CFR Part 60 Subpart KK	0.19 lb lead (Pb)/hr, 0.80 ton Pb/yr
	OAC rule 3745-17-07(A)	See A.2.d & A.2.e.
	OAC rule 3745-17-11(B)	See A.2.f.
		See A.2.f.

2. Additional Terms and Conditions

- 2.a Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b The particulate emission limitation is inclusive of lead emissions.
- 2.c The emission limitation established represents the combined allowable for emissions units

P029 and P030.

- 2.d** The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 1.0 milligram/dry standard cubic meter (0.00044 grains per dry standard cubic foot).
- 2.e** The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

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and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,

- ii. for Pb–Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.38 lb PE/hr, 1.66 tons PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum

operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.19 lb Pb/hr, 0.80 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.00044 gr/dscf by the maximum outlet flow rate of 50,000 acfm, then multiplying by 60 min/hour and dividing by 7000 gr/lb. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

Crown Battery Manufacturing Company

PTI Application: 02-12450

Issued

Facility ID: 0372030089

Emissions Unit ID: P030

- c. Emission Limitation: 0.00044 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P031 - 3 process operation for industrial batteries	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK.
		Use of Baghouse (see A.2.a)
		0.30 lb particulate emissions (PE)/hr, 1.31 tons PE/yr (see A.2.b)
		0.15 lb lead (Pb)/hr, 0.66 ton Pb/yr
	40 CFR Part 60 Subpart KK	See A.2.c & A.2.d.
	OAC rule 3745-17-07(A)	See A.2.e.
	OAC rule 3745-17-11(B)	See A.2.e.

2. Additional Terms and Conditions

- Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- The particulate emission limitation is inclusive of lead emissions.
- The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 1.0 milligram/dry standard cubic meter (0.00044 grains per dry standard

cubic foot).

- 2.d** The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.e** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.30 lb PE/hr, 1.31 tons PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the hourly Pb emission rate by a factor of 2 in accordance with AP-42 section 12.15 (1/95). Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.15 lb Pb/hr, 0.66 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.00044 gr/dscf by the maximum outlet flow rate of 40,000 acfm, then multiplying by 60 min/hour and dividing by 7000 gr/lb. Compliance

shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 0.00044 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

P

ART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P032 - three process operation for SLI batteries, Assembly #1	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK.
		Use of Baghouse (see A.2.a)
		0.21 lb particulate emissions (PE)/hr, 0.92 tons PE/yr (see A.2.b & A.2.c)
	40 CFR Part 60 Subpart KK	0.09 lb lead (Pb)/hr, 0.39 ton Pb/yr
	OAC rule 3745-17-07(A)	See A.2.d& A.2.e
	OAC rule 3745-17-11(B)	See A.2.f
		See A.2.f

2. Additional Terms and Conditions

- 2.a Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b The particulate emission limitation is inclusive of lead emissions.
- 2.c The emission limitation established represents the combined allowable for emissions units

P032 and P033

- 2.d** The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 1.0 milligram/dry standard cubic meter (0.00044 grains per dry standard cubic foot).
- 2.e** The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Crown Battery Manufacturing Company
PTI Application: 03 13450
Issued

Facility ID: 0372030089

Emissions Unit ID: **P032**

Reports are to be sent to:

Ohio Environmental Protection Agency
 DAPC - Permit Management Unit
 P.O. Box 163669
 Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
 Northwest District Office
 Division of Air Pollution Control
 347 North Dunbridge Road
 Bowling Green, Ohio 43402

E. Testing Requirements

1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an

"Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.21 lb PE/hr, 0.92 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the AP-42 emission factor, section 12.15 (revised 1/95), 92.6 lbs PE/1000 batteries by the maximum production rate of 3000 batteries/day, then dividing by the maximum operating schedule of 24 hours/day, and applying the control factor for the baghouse, 98.2%. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.09 lb Pb/hr, 0.39 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by

multiplying the outlet grain loading of 0.00044 gr/dscf by the maximum outlet flow rate of 25,000 acfm, then multiplying by 60 min/hour and dividing by 7000 gr/lb. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 0.00044 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P033 - three process operation for SLI batteries, Assembly #2	OAC rule 3745-31-05	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart KK.
		Use of Baghouse (see A.2.a)
		0.21 lb particulate emissions (PE)/hr, 0.92 tons PE/yr (see A.2.b & A.2.c)
	40 CFR Part 60 Subpart KK	0.09 lb lead (Pb)/hr, 0.39 ton Pb/yr
	OAC rule 3745-17-07(A)	See A.2.d& A.2.e
	OAC rule 3745-17-11(B)	See A.2.f
		See A.2.f

2. Additional Terms and Conditions

- 2.a Best available Technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.9% removal efficiency (100% capture).
- 2.b The particulate emission limitation is inclusive of lead emissions.
- 2.c The emission limitation established represents the combined allowable for emissions units P032 and P033

- 2.d The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 1.0 milligram/dry standard cubic meter (0.00044 grains per dry standard cubic foot).
- 2.e The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.
- 2.f The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range established during the most recent emission test that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The emissions unit is subject to the applicable provisions of Subpart KK of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant of 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);

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PTI Application: 03-12450
Issued

Facility ID: 0372030089

Emissions Unit ID: **P033**

- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

- 1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE (lb/hr) and Pb (lb/hr and grain loading).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE—Method 5; and,
 - ii. for Pb—Method 12, 40 CFR part 60-Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted for this emissions unit with all grid casting machines and lead melting pots at the facility operating at the maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures proved a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 0.21 lb PE/hr, 0.92 ton PE/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the AP-42 emission factor, section 12.15 (revised 1/95), 92.6 lbs PE/1000 batteries by the maximum production rate of 3000 batteries/day, then dividing by the maximum operating schedule of 24 hours/day, and applying the control factor for the baghouse, 98.2%. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.09 lb Pb/hr, 0.39 ton Pb/yr*

Applicable Compliance Method: The hourly emission limitation was developed by multiplying the outlet grain loading of 0.00044 gr/dscf by the maximum outlet flow rate of 25,000 acfm, then multiplying by 60 min/hour and dividing by 7000 gr/lb. Compliance shall be demonstrated by the emission testing requirements specified in E.1.

*The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 0.00044 gr Pb/dscf

Applicable Compliance Method: Compliance shall be demonstrated by emission testing requirements specified in E.1.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any gases with greater than 0% opacity.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A (rounded to the nearest whole percentage)

F. Miscellaneous Requirements

NONE

NEW SOURCE REVIEW FORM B

PTI Number: 03-13450

Facility ID: 0372030089

FACILITY NAME Crown Battery Manufacturing Company

FACILITY DESCRIPTION Lead Battery Manufacturing operations. CITY/TWP Fremont

Emissions Unit ID: **P033**

SIC CODE 3691 SCC CODE 3-04-005-06 EMISSIONS UNIT ID P016

EMISSIONS UNIT DESCRIPTION GRID CASTING MACHINE #1 (serviced by Lead Melting Pot #1)

DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.0043	0.02	0.05	0.22
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.0012	0.005	0.010	0.44
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? Subpart KK NESHAP? _____ PSD? _____ OFFSET POLICY? _____

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?
Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

SIC CODE 3691 SCC CODE 3-04-005-06 EMISSIONS UNIT ID P017

EMISSIONS UNIT DESCRIPTION GRID CASTING MACHINE #2 & #3 (serviced by Lead Melting Pot #2)

DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.0043	0.02	0.05	0.22
PM ₁₀					

NEW SOURCE REVIEW FORM B

PTI Number: 03-13450 Facility ID: 0372030089

FACILITY NAME Crown Battery Manufacturing Company

FACILITY DESCRIPTION Lead Battery Manufacturing operations. CITY/TWP Fremont

Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.0012	0.005	0.010	0.44
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? Subpart KK NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?
Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

SIC CODE 3691 SCC CODE 3-04-005-06 EMISSIONS UNIT ID P018

EMISSIONS UNIT DESCRIPTION GRID CASTING MACHINE #4 & #5 (serviced by Lead Melting Pot #3)

DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.0043	0.02	0.05	0.22
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.0012	0.005	0.010	0.44
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NEW SOURCE REVIEW FORM B

PTI Number: 03-13450

Facility ID: 0372030089

FACILITY NAME Crown Battery Manufacturing Company

FACILITY DESCRIPTION Lead Battery Manufacturing operations. CITY/TWP Fremont

Emissions Unit ID: **P033**

NSPS?

NESHAP? **Subpart KK**

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

SIC CODE 3691 SCC CODE 3-04-005-06 EMISSIONS UNIT ID P019

EMISSIONS UNIT DESCRIPTION Grid Casting Machine #6 & #7 (serviced by lead melting pot #4)

DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.0043	0.02	0.05	0.22
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.0012	0.005	0.010	0.44
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP? **Subpart KK**

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

NEW SOURCE REVIEW FORM B

PTI Number: 03-13450

Facility ID: 0372030089

FACILITY NAME Crown Battery Manufacturing Company

FACILITY DESCRIPTION Lead Battery Manufacturing operations. CITY/TWP Fremont

Emissions Unit ID: **P033**

Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

SIC CODE 3691 SCC CODE 3-04-005-06 EMISSIONS UNIT ID P021

EMISSIONS UNIT DESCRIPTION Grid Casting Machine #10 (serviced by lead melting pot #6)

DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.0043	0.02	0.05	0.22
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.0012	0.005	0.010	0.44
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? **Subpart KK** PSD? _____ OFFSET POLICY? _____

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

SIC CODE

7072.wpd

NEW SOURCE REVIEW FORM B

PTI Number: 03-13450 Facility ID: 0372030089

FACILITY NAME Crown Battery Manufacturing Company

FACILITY DESCRIPTION Lead Battery Manufacturing operations. CITY/TWP Fremont

3691 SCC CODE 3-04-005-06 EMISSIONS UNIT ID P022

EMISSIONS UNIT DESCRIPTION Grid Casting Machine #11, 12 & 13 (service by lead melting pot #7)

DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.0043	0.02	0.05	0.22
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.0012	0.005	0.010	0.44
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP? **Subpart KK**

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

SIC CODE 3691 SCC CODE 3-04-005-06 EMISSIONS UNIT ID P023

EMISSIONS UNIT DESCRIPTION Industrial Grid Casting Machine #1 & #2 (serviced by lead melting pot #21)

DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year

NEW SOURCE REVIEW FORM B

PTI Number: 03-13450

Facility ID: 0372030089

FACILITY NAME Crown Battery Manufacturing Company

FACILITY DESCRIPTION Lead Battery Manufacturing operations. CITY/TWP Fremont

Emissions Unit ID: **P033**

		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.0043	0.02	0.05	0.22
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.0012	0.005	0.010	0.44
Other: Air Toxics					

APPLICABLE FEDERAL RULES:
OFFSET POLICY?

NSPS?

NESHAP? **Subpart KK**

PSD?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS:

SIC CODE 3691 SCC CODE 3-04-005-06 EMISSIONS UNIT ID P024

EMISSIONS UNIT DESCRIPTION Industrial Grid Casting Machine #3 (serviced by lead melting pot #22)

DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.0043	0.02	0.05	0.22
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					

NEW SOURCE REVIEW FORM B

PTI Number: 03-13450

Facility ID: 0372030089

FACILITY NAME Crown Battery Manufacturing CompanyFACILITY DESCRIPTION Lead Battery Manufacturing operations. CITY/TWP FremontEmissions Unit ID: **P033**

Lead	attainment	0.0012	0.005	0.010	0.44
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP? **Subpart KK**

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter DeterminationIS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS:

SIC CODE 3691 SCC CODE 3-04-005-06 EMISSIONS UNIT ID P025EMISSIONS UNIT DESCRIPTION Industrial Grid Casting Machine #4 (serviced by lead melting pot #23)DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.0043	0.02	0.05	0.22
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.0012	0.005	0.010	0.44
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP? **Subpart KK**

PSD?

OFFSET POLICY?

NEW SOURCE REVIEW FORM B

PTI Number: 03-13450 Facility ID: 0372030089

FACILITY NAME Crown Battery Manufacturing Company

FACILITY DESCRIPTION Lead Battery Manufacturing operations. CITY/TWP Fremont

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

SIC CODE 3691 SCC CODE 3-04-005-11 EMISSIONS UNIT ID P026

EMISSIONS UNIT DESCRIPTION Hand pour small parts casting machine (serviced by lead melting pot #11)

DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.0003	0.001	0.05	0.22
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.00014	0.0006	0.010	0.44
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? Subpart KK PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

NEW SOURCE REVIEW FORM B

PTI Number: 03-13450

Facility ID: 0372030089

FACILITY NAME Crown Battery Manufacturing Company

FACILITY DESCRIPTION Lead Battery Manufacturing operations. CITY/TWP Fremont

Emissions Unit ID: **P033**

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS:

SIC CODE 3691 SCC CODE 3-04-005-11 EMISSIONS UNIT ID P027

EMISSIONS UNIT DESCRIPTION Automatic small parts casting machine (serviced by lead melting pot #12)

DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.0003	0.001	0.05	0.22
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.00014	0.0006	0.010	0.44
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? **Subpart KK** PSD? _____

OFFSET POLICY? _____

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

NEW SOURCE REVIEW FORM B

PTI Number: 03-13450 Facility ID: 0372030089
 FACILITY NAME Crown Battery Manufacturing Company
 FACILITY DESCRIPTION Lead Battery Manufacturing operations. CITY/TWP Fremont
 SIC CODE 3691 SCC CODE 3-04-005-11 EMISSIONS UNIT ID P028
 EMISSIONS UNIT DESCRIPTION Lead stick casting machine (serviced by lead melting pot #13)
 DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.0003	0.001	0.05	0.22
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.00014	0.0006	0.010	0.44
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? **Subpart KK** PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?
Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS:

SIC CODE 3691 SCC CODE 3-04-005-07 EMISSIONS UNIT ID P029
 EMISSIONS UNIT DESCRIPTION Paste mixer #1
 DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year

NEW SOURCE REVIEW FORM B

PTI Number: 03-13450

Facility ID: 0372030089

FACILITY NAME Crown Battery Manufacturing Company

FACILITY DESCRIPTION Lead Battery Manufacturing operations. CITY/TWP Fremont

Emissions Unit ID: **P033**

		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.006	0.026	0.38	1.66
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.003	0.013	0.19	0.83
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP? **Subpart KK**

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

SIC CODE 3691 SCC CODE 3-04-005-07 EMISSIONS UNIT ID P030

EMISSIONS UNIT DESCRIPTION Paste mixer #2

DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.006	0.026	0.38	1.66
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					

NEW SOURCE REVIEW FORM B

PTI Number: 03-13450

Facility ID: 0372030089

FACILITY NAME Crown Battery Manufacturing CompanyFACILITY DESCRIPTION Lead Battery Manufacturing operations. CITY/TWP FremontEmissions Unit ID: **P033**

Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.003	0.013	0.19	0.83
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP? **Subpart KK**

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter DeterminationIS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

SIC CODE 3691 SCC CODE 3-04-005-09 EMISSIONS UNIT ID P031EMISSIONS UNIT DESCRIPTION Industrial battery 3-process operationDATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.21	0.92	0.30	1.31
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.033	0.14	0.150	0.66
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NEW SOURCE REVIEW FORM B

PTI Number: 03-13450 Facility ID: 0372030089
FACILITY NAME Crown Battery Manufacturing Company
FACILITY DESCRIPTION Lead Battery Manufacturing operations. CITY/TWP Fremont
NSPS? NESHAP? Subpart KK PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?
Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no
OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

SIC CODE 3691 SCC CODE 3-04-005-09 EMISSIONS UNIT ID P032
EMISSIONS UNIT DESCRIPTION SLI batteries 3-process operation, Assembly #1
DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.21	0.92	0.21	0.92
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.033	0.14	0.09	0.39
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? Subpart KK PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?
Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

NEW SOURCE REVIEW FORM B

PTI Number: 03-13450 Facility ID: 0372030089

FACILITY NAME Crown Battery Manufacturing Company

FACILITY DESCRIPTION Lead Battery Manufacturing operations. CITY/TWP Fremont

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

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PTI Num

FACILITY

Emissions Unit ID: **P033**

FACILITY DESCRIPTION Lead Battery Manufacturing operations. CITY/TWP Fremont

SIC CODE 3691 SCC CODE 3-04-005-09 EMISSIONS UNIT ID P033

EMISSIONS UNIT DESCRIPTION SLI battery 3-process operation, Assembly #2

DATE INSTALLED 1989

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.21	0.92	0.21	0.92
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead	attainment	0.033	0.14	0.09	0.39
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP? **Subpart KK**

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____