State of Ohio Environmental Protection Agency

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50 W. Town St., Suite 700
Columbus, Ohio 43215

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www.epa.ohio.gov

MAILING ADDRESS:
P.O. Box 1049
Columbus, OH 43216-1049

12/14/2009

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR
No	CEMS
No	MACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

ROBERT MICHAEL
CROWN BATTERY MANUFACTURING CO
1445 MAJESTIC DR
PO BOX 990
FREMONT, OH 43420-0990

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0372030089
Permit Number: P0104922
Permit Type: Initial Installation
County: Sandusky

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate ("PTIO") which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

Ohio EPA maintains a document entitled "Frequently Asked Questions about the PTIO". The document can be downloaded from the DAPC Web page, www.epa.ohio.gov/dapc, from the "Permits" link. This document contains additional information related to your permit, such as what activities are covered under the PTIO, who has enforcement authority over the permit and Ohio EPA's authorization to inspect your facility and records. Please contact the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469 if you need assistance.

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of $70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Northwest District Office. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page www.epa.ohio.gov/dapc.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-NWDO

State of Ohio Environmental Protection Agency
Division of Air Pollution Control

FINAL

Air Pollution Permit-to-Install and Operate
for
CROWN BATTERY MANUFACTURING CO

Facility ID:	0372030089
Permit Number:	P0104922
Permit Type:	Initial Installation
Issued:	12/14/2009
Effective:	12/14/2009
Expiration:	12/14/2019

State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Air Pollution Permit-to-Install and Operate
for
CROWN BATTERY MANUFACTURING CO

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Authorization

Facility ID: 0372030089
Application Number(s): A0037581
Permit Number: P0104922
Permit Description: Installation of three new grid casting machines
Permit Type: Initial Installation
Permit Fee: $600.00
Issue Date: 12/14/2009
Effective Date: 12/14/2009
Expiration Date: 12/14/2019
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

CROWN BATTERY MANUFACTURING CO
1445 MAJESTIC DR
FREMONT, OH 43420

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419)352-8461

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section 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 described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director

Authorization (continued)

Permit Number: P0104922
Permit Description: Installation of three new grid casting machines

Permits for the following emissions unit(s) or groups of emissions units are in this document as indicated below:

Emissions Unit ID:	**P038**
Company Equipment ID:	P038
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P039**
Company Equipment ID:	P039
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P040**
Company Equipment ID:	P040
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

A. Standard Terms and Conditions

1. **What does this permit-to-install and operate ("PTIO") allow me to do?**

   This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. **Who is responsible for complying with this permit?**

   The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

   The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. **What records must I keep under this permit?**

   You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. **What are my permit fees and when do I pay them?**

   There are two fees associated with permitted air contaminant sources in Ohio:

   - PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

     You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

   - Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. **When does my PTIO expire, and when do I need to submit my renewal application?**

   This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Northwest District Office in accordance with OAC

rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

   a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

      (1) None.

   b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

      (1) None.

C. Emissions Unit Terms and Conditions

1. P038

Operations, Property and/or Equipment Description:

Grid Casting Machine #19

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(a)	See b)(2)a. 0.30 lb particulate emissions (PE)/hr and 1.31 tons PE/yr [See b)(2)b. and b)(2)c.] 0.44 tons lead (Pb)/yr [See b)(2)c.] The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart KK and 40 CFR Part 63, Subpart PPPPPP.
b.	40 CFR Part 60, Subpart KK	The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 0.49 milligram/dry standard cubic meter (0.000214 grains per dry standard cubic foot) as determined in accordance with 40 CFR Part 60.372(b). The permittee shall not cause to be discharged into the atmosphere any

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		gases with greater than 0% opacity.
c.	OAC rule 3745-17-07(A)	See b)(2)d.
d.	OAC rule 3745-17-11(B)	See b)(2)d.
e.	40 CFR Part 63, Subpart PPPPPP (40 CFR 63.11421 - 63.11427)	See 63.11423 See b)(2)e.
f.	40 CFR 63.1-15 40 CRR 63.11425	Table 1 to Subpart PPPPPP of 40 CFR Part 63 – Applicability of General Provisions to Subpart PPPPPP show which parts of the General Provisions in 40 CFR 63.1-15 apply.

(2) Additional Terms and Conditions

a. Best available technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.7% control efficiency.

b. The particulate emission limitation is inclusive of lead emissions.

c. The emission limitation established represents a combined allowable for emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027, P028, P034, P035, P036, P037, P038, P039 and P040.

d. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3)(a).

e. This emissions unit is subject to 40 CFR Part 63, Subpart PPPPPP, National Emission Standards for Hazardous Air Pollutants: Lead Acid Battery Manufacturing for Area Sources.: The complete MACT requirements, including the MACT General Provisions may be accessed via the internet from the Electronic Code of federal Regulations (e-CFR) website http://ecfr.gpoaccess.gov or by contacting the Ohio EPA, Northwest District Office.

The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart PPPPPP, including the following sections:

63.11423 – what are the standards and compliance requirements for new and existing sources

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse during operation of this emissions unit. 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, in inches of water, across the baghouse on a daily basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop reading immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the baghouse is 1.0 to 2.5 inches of water.

This range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range will not constitute a modification or relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

(2) The permittee shall comply with the applicable monitoring and record keeping requirements under 40 CFR Part 63, Subpart PPPPPP, including the following sections:

63.11423 (b) – monitoring requirements

e) Reporting Requirements

(1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

(2) The permittee shall comply with the applicable reporting requirements under 40 CFR Part 63, Subpart PPPPPP, including the following sections:

63.11423(b)(2)(ii) – monitoring system performance report in accordance with 63.10(e)(3).

f) Testing Requirements

(1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation: 0.30 lb PE/hr, 1.31 ton PE/yr

Applicable Compliance Method: The 0.30 lb/hr limitation represents the combined potential particulate emissions from emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027, P028, P034, P035, P036, P037, P038, P039 and P040 based on a September 16, 2009 stack test. If required, compliance shall be demonstrated in accordance with the test method and procedures in Method 5 of 40 CFR Part 60, Appendix A

The ton/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: 0.44 ton Pb/yr

Applicable Compliance Method: The ton/yr emission limitation was developed by multiplying the outlet grain loading for lead of 0.000214 gr/dscf by the maximum volumetric air flow rate of 53,600 acfm, multiplying by 60 min/hour, dividing by 7000 gr/lb, then multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton. If required, compliance shall be demonstrated in accordance with the test method and procedures in Method 29, of 40 CFR Part 60, Appendix A.

c. Emission Limitation: 0.49 mg/dscm (0.000214 gr Pb/dscf)

Applicable Compliance Method: If required, compliance shall be demonstrated in accordance with the test method and procedures in Method 29, of 40 CFR Part 60, Appendix A.

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

Applicable Compliance Method: If required, compliance with the visible emission limitation shall be determined in accordance with USEPA Method 9 of 40 CFR 60, Appendix A.

g) Miscellaneous Requirements

(1) None.

2. P039

Operations, Property and/or Equipment Description:

Grid Casting Machine #20

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(a)	See b)(2)a. 0.30 lb particulate emissions (PE)/hr and 1.31 tons PE/yr [See b)(2)b. and b)(2)c.] 0.44 tons lead (Pb)/yr [See b)(2)c.] The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart KK and 40 CFR Part 63, Subpart PPPPPP.
b.	40 CFR Part 60, Subpart KK	The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 0.49 milligram/dry standard cubic meter (0.000214 grains per dry standard cubic foot) as determined in accordance with 40 CFR Part 60.372(b). The permittee shall not cause to be discharged into the atmosphere any

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		gases with greater than 0% opacity.
c.	OAC rule 3745-17-07(A)	See b)(2)d.
d.	OAC rule 3745-17-11(B)	See b)(2)d.
e.	40 CFR Part 63, Subpart PPPPPP (40 CFR Part 63.11421-63.11427)	See 63.11423 See b)(2)e.
f.	40 CFR Part 63.1-15 (40 CFR 63.11425)	Table 1 to Subpart PPPPPP of 40 CFR Part 63 – Applicability of General Provisions to Subpart PPPPPP show which parts of the General Provisions in 40 CFR 63.1-15 apply.

(2) Additional Terms and Conditions

a. Best available technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.7% control efficiency.

b. The particulate emission limitation is inclusive of lead emissions.

c. The emission limitation established represents a combined allowable for emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027, P028, P034, P035, P036, P037, P038, P039 and P040.

d. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3)(a).

e. This emissions unit is subject to 40 CFR Part 63, Subpart PPPPPP, National Emission Standards for Hazardous Air Pollutants: Lead Acid Battery Manufacturing for Area Sources.: The complete MACT requirements, including the MACT General Provisions may be accessed via the internet from the Electronic Code of federal Regulations (e-CFR) website http://ecfr.gpoaccess.gov or by contacting the Ohio EPA, Northwest District Office.

The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart PPPPPP, including the following sections:

63.11423 – what are the standards and compliance requirements for new and existing sources

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse during operation of this emissions unit. 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, in inches of water, across the baghouse on a daily basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop reading immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the baghouse is 1.0 to 2.5 inches of water.

This range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range will not constitute a modification or relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

(2) The permittee shall comply with the applicable monitoring and record keeping requirements under 40 CFR Part 63, Subpart PPPPPP, including the following sections:

63.11423 (b) – monitoring requirements

e) Reporting Requirements

(1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

(2) The permittee shall comply with the applicable reporting requirements under 40 CFR Part 63, Subpart PPPPPP, including the following sections:

63.11423(b)(2)(ii) – monitoring system performance report in accordance with 63.10(e)(3).

f) Testing Requirements

(1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation: 0.30 lb PE/hr, 1.31 ton PE/yr

Applicable Compliance Method: The 0.30 lb/hr limitation represents the combined potential particulate emissions from emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027, P028, P034, P035, P036, P037, P038, P039 and P040 based on a September 16, 2009 stack test. If required, compliance shall be demonstrated in accordance with the test method and procedures in Method 5 of 40 CFR Part 60, Appendix A

The ton/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: 0.44 ton Pb/yr

Applicable Compliance Method: The ton/yr emission limitation was developed by multiplying the outlet grain loading for lead of 0.000214 gr/dscf by the maximum volumetric air flow rate of 53,600 acfm, multiplying by 60 min/hour, dividing by 7000 gr/lb, then multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton. If required, compliance shall be demonstrated in accordance with the test method and procedures in Method 29, of 40 CFR Part 60, Appendix A.

c. Emission Limitation: 0.49 mg/dscm (0.000214 gr Pb/dscf)

Applicable Compliance Method: If required, compliance shall be demonstrated in accordance with the test method and procedures in Method 29, of 40 CFR Part 60, Appendix A.

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

Applicable Compliance Method: If required, compliance with the visible emission limitation shall be determined in accordance with USEPA Method 9 of 40 CFR 60, Appendix A.

g) Miscellaneous Requirements

(1) None.

3. P040

Operations, Property and/or Equipment Description:

Grid Casting Machine #21

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(a)	See b)(2)a. 0.30 lb particulate emissions (PE)/hr and 1.31 tons PE/yr [See b)(2)b. and b)(2)c.] 0.44 tons lead (Pb)/yr [See b)(2)c.] The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart KK and 40 CFR Part 63, Subpart PPPPPP.
b.	40 CFR Part 60, Subpart KK	The permittee shall not cause to be discharged into the atmosphere any gases that contain lead in excess of 0.49 milligram/dry standard cubic meter (0.000214 grains per dry standard cubic foot) as determined in accordance with 40 CFR Part 60.372(b). The permittee shall not cause to be discharged into the atmosphere any

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		gases with greater than 0% opacity.
c.	OAC rule 3745-17-07(A)	See b)(2)d.
d.	OAC rule 3745-17-11(B)	See b)(2)d.
e.	40 CFR Part 63, Subpart PPPPPP (40 CFR 63.11421-63.11427)	See 63.11423 See b)(2)e.
f.	40 CFR 63.1-15 (41 CFR 63.11425)	Table 1 to Subpart PPPPPP of 40 CFR Part 63 – Applicability of General Provisions to Subpart PPPPPP show which parts of the General Provisions in 40 CFR 63.1-15 apply.

(2) Additional Terms and Conditions

a. Best available technology (BAT) for this emissions unit has been determined to be the use of a baghouse with a 98.7% control efficiency.

b. The particulate emission limitation is inclusive of lead emissions.

c. The emission limitation established represents a combined allowable for emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027, P028, P034, P035, P036, P037, P038, P039 and P040.

d. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3)(a).

e. This emissions unit is subject to 40 CFR Part 63, Subpart PPPPPP, National Emission Standards for Hazardous Air Pollutants: Lead Acid Battery Manufacturing for Area Sources.: The complete MACT requirements, including the MACT General Provisions may be accessed via the internet from the Electronic Code of federal Regulations (e-CFR) website http://ecfr.gpoaccess.gov or by contacting the Ohio EPA, Northwest District Office.

The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart PPPPPP, including the following sections:

63.11423 – what are the standards and compliance requirements for new and existing sources

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse during operation of this emissions unit. 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, in inches of water, across the baghouse on a daily basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop reading immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the baghouse is 1.0 to 2.5 inches of water.

This range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range will not constitute a modification or relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

(2) The permittee shall comply with the applicable monitoring and record keeping requirements under 40 CFR Part 63, Subpart PPPPPP, including the following sections:

63.11423 (b) – monitoring requirements

e) Reporting Requirements

(1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

(2) The permittee shall comply with the applicable reporting requirements under 40 CFR Part 63, Subpart PPPPPP, including the following sections:

63.11423(b)(2)(ii) – monitoring system performance report in accordance with 63.10(e)(3).

f) Testing Requirements

(1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation: 0.30 lb PE/hr, 1.31 ton PE/yr

Applicable Compliance Method: The 0.30 lb/hr limitation represents the combined potential particulate emissions from emissions units P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027, P028, P034, P035, P036, P037, P038, P039 and P040 based on a September 16, 2009 stack test. If required, compliance shall be demonstrated in accordance with the test method and procedures in Method 5 of 40 CFR Part 60, Appendix A

The ton/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: 0.44 ton Pb/yr

Applicable Compliance Method: The ton/yr emission limitation was developed by multiplying the outlet grain loading for lead of 0.000214 gr/dscf by the maximum volumetric air flow rate of 53,600 acfm, multiplying by 60 min/hour, dividing by 7000 gr/lb, then multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton. If required, compliance shall be demonstrated in accordance with the test method and procedures in Method 29, of 40 CFR Part 60, Appendix A.

c. Emission Limitation: 0.49 mg/dscm (0.000214 gr Pb/dscf)

Applicable Compliance Method: If required, compliance shall be demonstrated in accordance with the test method and procedures in Method 29, of 40 CFR Part 60, Appendix A.

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

Applicable Compliance Method: If required, compliance with the visible emission limitation shall be determined in accordance with USEPA Method 9 of 40 CFR 60, Appendix A.

g) Miscellaneous Requirements

(1) None.