State of Ohio Environmental Protection Agency

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12/3/2009

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THOMAS FRIES
ROCK CREEK ALUMINUM INC
320 HURON ST
ELYRIA, OH 44035

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0247040798
Permit Number: P0104826
Permit Type: Initial Installation
County: Lorain

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, Northeast 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-NEDO

State of Ohio Environmental Protection Agency
Division of Air Pollution Control

FINAL

Air Pollution Permit-to-Install and Operate
for
ROCK CREEK ALUMINUM INC

Facility ID: 0247040798
Permit Number: P0104826
Permit Type: Initial Installation
Issued: 12/3/2009
Effective: 12/3/2009
Expiration: 12/3/2014

State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Air Pollution Permit-to-Install and Operate
for
ROCK CREEK ALUMINUM INC

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Authorization

Facility ID: 0247040798
Application Number(s): A0036291, A0037660
Permit Number: P0104826
Permit Description: Modification of P901, installation of new sources P902, P903, P904, P905, F001, F002, and F003
Permit Type: Initial Installation
Permit Fee: $11,500.00
Issue Date: 12/3/2009
Effective Date: 12/3/2009
Expiration Date: 12/3/2014
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

ROCK CREEK ALUMINUM INC
320 HURON ST
Elyria, OH 44035

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, Northeast District Office
2110 East Aurora Road
Twinsburg, OH 43087
(330)425-9171

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: P0104826
Permit Description: Modification of P901, installation of new sources P902, P903, P904, P905, F001, F002, and F003

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

Emissions Unit ID:	**F001**
Company Equipment ID:	F001 Patterson Scr.
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**F002**
Company Equipment ID:	F002 Rotex Screener
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**F003**
Company Equipment ID:	F003 Kamarek Briq.
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P902**
Company Equipment ID:	P902 Magnatech Shr.
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P903**
Company Equipment ID:	P006 FMC Screener
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P904**
Company Equipment ID:	P008 M&M Shredder
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P905**
Company Equipment ID:	P008 Truck Loading
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, Northeast 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. F001, Patterson Scr.

Operations, Property and/or Equipment Description:

Patterson Screener

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)(ii)	See b)(2)a.
b.	OAC rule 3745-17-07(B)	See b)(2)b.
c.	OAC rule 3745-17-08(B)	See b)(2)c.
d.	OAC rule 3745-31-05(D)(1)(b)	Particulate emissions (PE) (fugitive) shall not exceed 0.94 ton per year as a rolling, 12-month summation. See c)(1).

(2) Additional Terms and Conditions

a. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE from this air contaminant source since the uncontrolled potential to emit for PE is less than 10 tons per year.

b. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

c. This emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-07(B).

c) Operational Restrictions

(1) The hours of operation of this emissions unit shall be limited to 4160 hours on a rolling, 12-month basis.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain an operations log for this emissions unit. This operations log shall contain, at a minimum, the following information:

a. the total number of hours of operation for each day.

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 PER shall cover a reporting period of no more than 12 months for each air contaminant source identified in this permit.

f) Testing Requirements

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

a. Emission Limitation:

PE (fugitive) shall not exceed 0.94 ton per year as a rolling, 12-month summation.

Applicable Compliance Method:

i. Compliance with the annual PE rate for fugitive emissions shall be assumed as long as compliance with the operating hours restriction in c)(1) is maintained.

ii. The fugitive PE limitation is based upon the following equation:

E = (1.5 tons/hr) x (0.30 lb PE/ton) x (4160 hrs/yr) x (1 ton/2000 lbs)

where:

1.5 tons/hr = maximum quantity of material processed, in ton(s) per hour;

0.30 lb PE/ton = emission factor from AP-42, Section 11.19, Table 11.19.2-2, uncontrolled fines screening;

4160 hrs/yr = maximum allowable hours of operation per year; and

1 ton/2000 lbs = conversion of pounds to tons.

g) Miscellaneous Requirements

(1) None.

2. F002, Rotex Screener

Operations, Property and/or Equipment Description:

Rotex Screener

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)(ii)	See b)(2)a.
b.	OAC rule 3745-17-07(B)	See b)(2)b.
c.	OAC rule 3745-17-08(B)	See b)(2)c.
d.	OAC rule 3745-31-05(D)(1)(b)	Particulate emissions (PE) (fugitive) shall not exceed 0.94 ton per year as a rolling, 12-month summation. See c)(1).

(2) Additional Terms and Conditions

a. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE from this air contaminant source since the uncontrolled potential to emit for PE is less than 10 tons per year.

b. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

c. This emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-07(B).

c) Operational Restrictions

(1) The hours of operation of this emissions unit shall be limited to 4160 hours on a rolling, 12-month basis.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain an operations log for this emissions unit. This operations log shall contain, at a minimum, the following information:

a. the total number of hours of operation for each day.

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 PER shall cover a reporting period of no more than 12 months for each air contaminant source identified in this permit.

f) Testing Requirements

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

a. Emission Limitation:

PE (fugitive) shall not exceed 0.94 ton per year as a rolling, 12-month summation.

Applicable Compliance Method:

i. Compliance with the annual PE rate for fugitive emissions shall be assumed as long as compliance with the operating hours restriction in c)(1) is maintained.

ii. The fugitive PE limitation is based upon the following equation:

E = (1.5 tons/hr) x (0.30 lb PE/ton) x (4160 hrs/yr) x (1 ton/2000 lbs)

where:

1.5 tons/hr = maximum quantity of material processed, in ton(s) per hour;

0.30 lb PE/ton = emission factor from AP-42, Section 11.19, Table 11.19.2-2, uncontrolled fines screening;

4160 hrs/yr = maximum allowable hours of operation per year; and

1 ton/2000 lbs = conversion of pounds to tons.

g) Miscellaneous Requirements

(1) None.

3. F003, Komarek Briq.

Operations, Property and/or Equipment Description:

Komarek Aluminum Briquetter

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)(ii)	See b)(2)a.
b.	OAC rule 3745-17-07(B)	See b)(2)b.
c.	OAC rule 3745-17-08(B)	See b)(2)c.
d.	OAC rule 3745-31-05(D)(1)(b)	Particulate emissions (PE) (fugitive) shall not exceed 1.25 tons per year as a rolling, 12-month summation. See c)(1).

(2) Additional Terms and Conditions

a. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE from this air contaminant source since the uncontrolled potential to emit for PE is less than 10 tons per year.

b. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

c. This emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-07(B).

c) Operational Restrictions

(1) The hours of operation of this emissions unit shall be limited to 4160 hours on a rolling, 12-month basis.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain an operations log for this emissions unit. This operations log shall contain, at a minimum, the following information:

a. the total number of hours of operation for each day.

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 PER shall cover a reporting period of no more than 12 months for each air contaminant source identified in this permit.

f) Testing Requirements

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

a. Emission Limitation:

PE (fugitive) shall not exceed 1.25 tons per year as a rolling, 12-month summation.

Applicable Compliance Method:

i. Compliance with the annual PE rate for fugitive emissions shall be assumed as long as compliance with the operating hours restriction in c)(1) is maintained.

ii. The fugitive PE limitation is based upon the following equation:

E = (2.0 tons/hr) x (0.30 lb PE/ton) x (4160 hrs/yr) x (1 ton/2000 lbs)

where:

2.0 tons/hr = maximum quantity of material processed, in ton(s) per hour;

0.30 lb PE/ton = emissions factor from AP-42, Section 11.19, Table 11.19.2-2, uncontrolled fines screening;

4160 hrs/yr = maximum allowable hours of operation per year; and

1 ton/2000 lbs = conversion of pounds to tons.

g) Miscellaneous Requirements

(1) None.

4. P902, Magnatech Shr.

Operations, Property and/or Equipment Description:

P902 Magnatech Shredder equipped with a baghouse (shared with emissions units P903 and P904)

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)	Particulate emissions (PE) from the stack associated with this emissions unit shall not exceed 7.5 pounds per hour and 15.6 tons per year. Fugitive PE shall not exceed 7.8 tons per year. Visible PE from any opening of the building housing this air contaminant source shall not exceed 10% opacity as a 3-minute average. Visible PE from the stack associated with this emissions unit shall not exceed 10% opacity as a 6-minute average. See b)(2)a, b)(2)b and b)(2)c.
b.	OAC rule 3745-31-05(D)(1)(b)	PE (fugitive and stack) shall not exceed 23.5 tons per year as a rolling, 12-month

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		summation. See c)(2).
c.	OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-17-07(B)	See b)(2)d.
e.	OAC rule 3745-17-08(B)	See b)(2)e.
f.	OAC rule 3745-17-11(B)(1)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. Best available control measures (BACM) shall be employed to minimize fugitive PE. BACM shall include, but not be limited to, using a baghouse for dust collection, containing operations within the building, and using good engineering practices.

b. BACM required by OAC rule 3745-31-05(A)(3) that are employed for this emissions unit shall be considered adequate if compliance with the visible PE limitation contained in OAC rule 3745-31-05(A)(3) is achieved.

c. The emissions from this emissions unit shall be vented to a baghouse at all times the emissions unit is in operation.

d. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

e. This emissions unit is not located within an “Appendix A” area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-07(B).

c) Operational Restrictions

(1) The permittee shall not operate this emissions unit without use of the baghouse for dust collection.

(2) The hours of operation of this emissions unit shall be limited to 4160 hours on a rolling, 12-month basis.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from any non-stack egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an

operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cuase of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emission unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

A visible emission incident does not necessarily constitute a violation of the visible PE emission limitation in b(1)a established pursuant to OAC rule 3745-31-05(A)(3). A visible emission incident which exceeds the visible PE emission limitation in b(1)a observed in accordance with Method 9 of 40 CFR Part 60, Appendix A, shall constitute a violation of the visible PE emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions from the exhaust stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the

observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

A visible emission incident does not necessarily constitute a violation of the visible PE emission limitation in b(1)a established pursuant to OAC rule 3745-31-05(A)(3). A visible emission incident which exceeds the visible PE emission limitation in b(1)a observed in accordance with Method 9 of 40 CFR Part 60, Appendix A, shall constitute a violation of the visible PE emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(3) The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned frequencies for performing the visible emission checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

(4) The acceptable range for the pressure drop across the baghouse shall be based upon the manufacturer's specifications, until such time as any required performance testing is conducted and/or an alternative pressure drop range and/or limit is established. The established pressure drop range shall include the manufacturer's specified pressure drop range.

(5) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit is in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

a. the date and time the deviation began;

b. the magnitude of the deviation at that time;

c. the date the investigation was conducted;

d. the name(s) of the personnel who conducted the investigation; and

e. 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 in this permit, 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.

f. a description of the corrective action;

g. the date corrective action was completed;

h. the date and time the deviation ended;

i. the total period of time (in minutes) during which there was a deviation;

j. the pressure drop readings immediately after the corrective action was implemented; and

k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

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

(6) The permittee shall maintain an operations log for this emissions unit. This operations log shall contain, at a minimum, the following information:

a. the total number of hours of operation for each day; and

b. the amount of material processed, in tons per hour.

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 PER shall cover a reporting period of no more than 12 months for each air contaminant source identified in this permit.

(2) The permittee shall identify in the annual PER the following information concerning the operations of the baghouse during the 12-month reporting period for this emissions unit:

a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;

b. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouse;

c. each incident of deviation described in "a" (above) where a prompt investigation was not conducted;

d. each incident of deviation described in "a" where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

Each incident of deviation described in "a" where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

(3) The permittee shall identify in the annual PER (a) all days during which any visible particulate emissions were observed from the exhaust stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions during the 12-month reporting period for this emissions unit.

(4) The permittee shall identify in the annual PER (a) all days during which any visible emission of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible emissions during the 12-month reporting period for this emissions unit.

f) Testing Requirements

(1) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 9 months after issuance of the permit.

b. The emission testing shall be conducted to demonstrate compliance with the allowable concentration of particulates in the exhaust stream.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate:

Methods 1 through 5 of 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 while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

e. Pressure drop readings for the baghouse associated with this emissions unit shall be recorded during the test(s) to establish an acceptable pressure drop range for the Monitoring and/or Recording Keeping Requirements in d)(4) of these terms and conditions.

f. 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 Northeast District Office. The "Intent to Test" notification 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 Northeast District Office's refusal to accept the results of the emission test(s).

g. Personnel from the Ohio EPA Northeast 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 provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. 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 Ohio EPA Northeast District Office 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 Ohio EPA Northeast District Office.

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

a. Emission Limitation:

Visible PE from any opening of the building housing this air contaminant source shall not exceed 10% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance with the above emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(3).

b. Emission Limitation:

PE from the stack associated with this emissions unit shall not exceed 7.5 pounds per hour and 15.6 tons per year.

Applicable Compliance Method:

i. Compliance with the hourly PE emission limitation shall be determined based upon stack testing specified in f)(1).

ii. The permittee may determine the annual particulate emission rate from the stack associated with this emissions unit by multiplying the hourly particulate emission rate established by stack testing specified in f)(1) by the number of hours the emissions unit was in operation and dividing by 2000 pounds per ton.

c. Emission Limitation:

PE (fugitive and stack) shall not exceed 23.5 tons per year as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the annual particulate emission rate for fugitive and stack emissions shall be assumed as long as compliance with the operating hours restriction in c)(2) is maintained.

d. Emission Limitation:

Visible PE from the stack associated with this emissions unit shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance with the above emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).

e. Emission Limitation:

Fugitive PE shall not exceed 7.8 tons per year.

Applicable Compliance Method:

The permittee may determine the hourly fugitive particulate emission rate from this emissions unit using the following equation:

E = (X tons/hr) x (0.249 lb PE/ton)

where:

X = quantity of material processed, in ton(s) per hour; and

0.249 lb PE/ton = fugitive emission factor based upon mass balance established by the permittee based upon the amount of material processed, the amount of dust collected, 99 percent capture efficiency, and 98 percent control efficiency.

The permittee may determine the annual fugitive particulate emission rate associated with this emissions unit by multiplying the hourly fugitive particulate emission rate established above by the number of hours the emissions unit was in operation.

g) Miscellaneous Requirements

(1) None.

5. P903, FMC Screener

Operations, Property and/or Equipment Description:

FMC Screener equipped with a baghouse (shared with emissions units P902 and P904)

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)	Particulate emissions (PE) from the stack associated with this emissions unit shall not exceed 7.5 pounds per hour and 15.6 tons per year. Fugitive PE shall not exceed 7.8 tons per year. Visible PE from any opening of the building housing this air contaminant source shall not exceed 10% opacity as a 3-minute average. Visible PE from the stack associated with this emissions unit shall not exceed 10% opacity as a 6-minute average. See b)(2)a, b)(2)b and b)(2)c.
b.	OAC rule 3745-31-05(D)(1)(b)	PE (fugitive and stack) shall not exceed 23.5 tons per year as a rolling, 12-month summation.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		See c)(2).
c.	OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-17-07(B)	See b)(2)d.
e.	OAC rule 3745-17-08(B)	See b)(2)e.
f.	OAC rule 3745-17-11(B)(1)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. Best available control measures (BACM) shall be employed to minimize fugitive PE. BACM shall include, but not be limited to, using a baghouse for dust collection, containing operations within the building, and using good engineering practices.

b. BACM required by OAC rule 3745-31-05(A)(3) that are employed for this emissions unit shall be considered adequate if compliance with the visible PE limitation contained in OAC rule 3745-31-05(A)(3) is achieved.

c. The emissions from this emissions unit shall be vented to a baghouse at all times the emissions unit is in operation.

d. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

e. This emissions unit is not located within an “Appendix A” area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-07(B).

c) Operational Restrictions

(1) The permittee shall not operate this emissions unit without use of the baghouse for dust collection.

(2) The hours of operation of this emissions unit shall be limited to 4160 hours on a rolling, 12-month basis.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from any non-stack egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an

operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cuase of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emission unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

A visible emission incident does not necessarily constitute a violation of the visible PE emission limitation in b(1)a established pursuant to OAC rule 3745-31-05(A)(3). A visible emission incident which exceeds the visible PE emission limitation in b(1)a observed in accordance with Method 9 of 40 CFR Part 60, Appendix A, shall constitute a violation of the visible PE emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions from the exhaust stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the

observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

A visible emission incident does not necessarily constitute a violation of the visible PE emission limitation in b(1)a established pursuant to OAC rule 3745-31-05(A)(3). A visible emission incident which exceeds the visible PE emission limitation in b(1)a observed in accordance with Method 9 of 40 CFR Part 60, Appendix A, shall constitute a violation of the visible PE emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(3) The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned frequencies for performing the visible emission checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

(4) The acceptable range for the pressure drop across the baghouse shall be based upon the manufacturer's specifications, until such time as any required performance testing is conducted and/or an alternative pressure drop range and/or limit is established. The established pressure drop range shall include the manufacturer's specified pressure drop range.

(5) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit is in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

a. the date and time the deviation began;

b. the magnitude of the deviation at that time;

c. the date the investigation was conducted;

d. the name(s) of the personnel who conducted the investigation; and

e. 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 in this permit, 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.

f. a description of the corrective action;

g. the date corrective action was completed;

h. the date and time the deviation ended;

i. the total period of time (in minutes) during which there was a deviation;

j. the pressure drop readings immediately after the corrective action was implemented; and

k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

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

(6) The permittee shall maintain an operations log for this emissions unit. This operations log shall contain, at a minimum, the following information:

a. the total number of hours of operation for each day; and

b. the amount of material processed, in tons per hour.

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 PER shall cover a reporting period of no more than 12 months for each air contaminant source identified in this permit.

(2) The permittee shall identify in the annual PER the following information concerning the operations of the baghouse during the 12-month reporting period for this emissions unit:

a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;

b. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouse;

c. each incident of deviation described in "a" (above) where a prompt investigation was not conducted;

d. each incident of deviation described in "a" where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

Each incident of deviation described in "a" where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

(3) The permittee shall identify in the annual PER (a) all days during which any visible particulate emissions were observed from the exhaust stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions during the 12-month reporting period for this emissions unit.

(4) The permittee shall identify in the annual PER (a) all days during which any visible emission of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible emissions during the 12-month reporting period for this emissions unit.

f) Testing Requirements

(1) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 9 months after issuance of the permit.

b. The emission testing shall be conducted to demonstrate compliance with the allowable concentration of particulates in the exhaust stream.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate:

Methods 1 through 5 of 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 while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

e. Pressure drop readings for the baghouse associated with this emissions unit shall be recorded during the test(s) to establish an acceptable pressure drop range for the Monitoring and/or Recording Keeping Requirements in d)(4) of these terms and conditions.

f. 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 Northeast District Office. The "Intent to Test" notification 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 Northeast District Office's refusal to accept the results of the emission test(s).

g. Personnel from the Ohio EPA Northeast 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 provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. 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 Ohio EPA Northeast District Office 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 Ohio EPA Northeast District Office.

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

a. Emission Limitation:

Visible PE from any opening of the building housing this air contaminant source shall not exceed 10% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance with the above emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(3).

b. Emission Limitation:

PE from the stack associated with this emissions unit shall not exceed 7.5 pounds per hour and 15.6 tons per year.

Applicable Compliance Method:

i. Compliance with the hourly PE emission limitation shall be determined based upon stack testing specified in f)(1).

ii. The permittee may determine the annual particulate emission rate from the stack associated with this emissions unit by multiplying the hourly particulate emission rate established by stack testing specified in f)(1) by the number of hours the emissions unit was in operation and dividing by 2000 pounds per ton.

c. Emission Limitation:

PE (fugitive and stack) shall not exceed 23.5 tons per year as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the annual particulate emission rate for fugitive and stack emissions shall be assumed as long as compliance with the operating hours restriction in c)(2) is maintained.

d. Emission Limitation:

Visible PE from the stack associated with this emissions unit shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance with the above emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).

e. Emission Limitation:

Fugitive PE shall not exceed 7.8 tons per year.

Applicable Compliance Method:

The permittee may determine the hourly fugitive particulate emission rate from this emissions unit using the following equation:

E = (X tons/hr) x (0.249 lb PE/ton)

where:

X = quantity of material processed, in ton(s) per hour; and

0.249 lb PE/ton = fugitive emission factor based upon mass balance established by the permittee based upon the amount of material processed, the amount of dust collected, 99 percent capture efficiency, and 98 percent control efficiency.

The permittee may determine the annual fugitive particulate emission rate associated with this emissions unit by multiplying the hourly fugitive particulate emission rate established above by the number of hours the emissions unit was in operation.

g) Miscellaneous Requirements

(1) None.

6. P904, M&M Shredder

Operations, Property and/or Equipment Description:

M&M Shredder equipped with a baghouse (shared with emissions units P902 and P903)

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)	Particulate emissions (PE) from the stack associated with this emissions unit shall not exceed 4.0 pounds per hour and 8.3 tons per year. Fugitive PE shall not exceed 4.2 tons per year. Visible PE from any opening of the building housing this air contaminant source shall not exceed 10% opacity as a 3-minute average. Visible PE from the stack associated with this emissions unit shall not exceed 10% opacity as a 6-minute average. See b)(2)a, b)(2)b and b)(2)c.
b.	OAC rule 3745-31-05(D)(1)(b)	PE (fugitive and stack) shall not exceed 12.5 tons per year as a rolling, 12-month summation.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		See c)(2).
c.	OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-17-07(B)	See b)(2)d.
e.	OAC rule 3745-17-08(B)	See b)(2)e.
f.	OAC rule 3745-17-11(B)(1)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. Best available control measures (BACM) shall be employed to minimize fugitive PE. BACM shall include, but not be limited to, using a baghouse for dust collection, containing operations within the building, and using good engineering practices.

b. BACM required by OAC rule 3745-31-05(A)(3) that are employed for this emissions unit shall be considered adequate if compliance with the visible PE limitation contained in OAC rule 3745-31-05(A)(3) is achieved.

c. The emissions from this emissions unit shall be vented to a baghouse at all times the emissions unit is in operation.

d. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

e. This emissions unit is not located within an “Appendix A” area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-07(B).

c) Operational Restrictions

(1) The permittee shall not operate this emissions unit without use of the baghouse for dust collection.

(2) The hours of operation of this emissions unit shall be limited to 4160 hours on a rolling, 12-month basis.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from any non-stack egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an

operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cuase of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emission unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

A visible emission incident does not necessarily constitute a violation of the visible PE emission limitation in b(1)a established pursuant to OAC rule 3745-31-05(A)(3). A visible emission incident which exceeds the visible PE emission limitation in b(1)a observed in accordance with Method 9 of 40 CFR Part 60, Appendix A, shall constitute a violation of the visible PE emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions from the exhaust stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the

observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

A visible emission incident does not necessarily constitute a violation of the visible PE emission limitation in b(1)a established pursuant to OAC rule 3745-31-05(A)(3). A visible emission incident which exceeds the visible PE emission limitation in b(1)a observed in accordance with Method 9 of 40 CFR Part 60, Appendix A, shall constitute a violation of the visible PE emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(3) The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned frequencies for performing the visible emission checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

(4) The acceptable range for the pressure drop across the baghouse shall be based upon the manufacturer's specifications, until such time as any required performance testing is conducted and/or an alternative pressure drop range and/or limit is established. The established pressure drop range shall include the manufacturer's specified pressure drop range.

(5) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit is in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

a. the date and time the deviation began;

b. the magnitude of the deviation at that time;

c. the date the investigation was conducted;

d. the name(s) of the personnel who conducted the investigation; and

e. 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 in this permit, 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.

f. a description of the corrective action;

g. the date corrective action was completed;

h. the date and time the deviation ended;

i. the total period of time (in minutes) during which there was a deviation;

j. the pressure drop readings immediately after the corrective action was implemented; and

k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

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

(6) The permittee shall maintain an operations log for this emissions unit. This operations log shall contain, at a minimum, the following information:

a. the total number of hours of operation for each day; and

b. the amount of material processed, in tons per hour.

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 PER shall cover a reporting period of no more than 12 months for each air contaminant source identified in this permit.

(2) The permittee shall identify in the annual PER the following information concerning the operations of the baghouse during the 12-month reporting period for this emissions unit:

a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;

b. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouse;

c. each incident of deviation described in "a" (above) where a prompt investigation was not conducted;

d. each incident of deviation described in "a" where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

Each incident of deviation described in "a" where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

(3) The permittee shall identify in the annual PER (a) all days during which any visible particulate emissions were observed from the exhaust stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions during the 12-month reporting period for this emissions unit.

(4) The permittee shall identify in the annual PER (a) all days during which any visible emission of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible emissions during the 12-month reporting period for this emissions unit.

f) Testing Requirements

(1) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 9 months after issuance of the permit.

b. The emission testing shall be conducted to demonstrate compliance with the allowable concentration of particulates in the exhaust stream.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate:

Methods 1 through 5 of 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 while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

e. Pressure drop readings for the baghouse associated with this emissions unit shall be recorded during the test(s) to establish an acceptable pressure drop range for the Monitoring and/or Recording Keeping Requirements in d)(4) of these terms and conditions.

f. 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 Northeast District Office. The "Intent to Test" notification 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 Northeast District Office's refusal to accept the results of the emission test(s).

g. Personnel from the Ohio EPA Northeast 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 provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. 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 Ohio EPA Northeast District Office 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 Ohio EPA Northeast District Office.

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

a. Emission Limitation:

Visible PE from any opening of the building housing this air contaminant source shall not exceed 10% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance with the above emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(3).

b. Emission Limitation:

PE from the stack associated with this emissions unit shall not exceed 4.0 pounds per hour and 8.3 tons per year.

Applicable Compliance Method:

i. Compliance with the hourly PE emission limitation shall be determined based upon stack testing specified in f)(1).

ii. The permittee may determine the annual particulate emission rate from the stack associated with this emissions unit by multiplying the hourly particulate emission rate established by stack testing specified in f)(1) by the number of hours the emissions unit was in operation and dividing by 2000 pounds per ton.

c. Emission Limitation:

PE (fugitive and stack) shall not exceed 12.5 tons per year as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the annual particulate emission rate for fugitive and stack emissions shall be assumed as long as compliance with the operating hours restriction in c)(2) is maintained.

d. Emission Limitation:

Visible PE from the stack associated with this emissions unit shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance with the above emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).

e. Emission Limitation:

Fugitive PE shall not exceed 4.2 tons per year.

Applicable Compliance Method:

The permittee may determine the hourly fugitive particulate emission rate from this emissions unit using the following equation:

E = (X tons/hr) x (0.249 lb PE/ton)

where:

X = quantity of material processed, in ton(s) per hour; and

0.249 lb PE/ton = fugitive emission factor based upon mass balance established by the permittee based upon the amount of material processed, the amount of dust collected, 99 percent capture efficiency, and 98 percent control efficiency.

The permittee may determine the annual fugitive particulate emission rate associated with this emissions unit by multiplying the hourly fugitive particulate emission rate established above by the number of hours the emissions unit was in operation.

g) Miscellaneous Requirements

(1) None.

7. P905, Truck Loading

Operations, Property and/or Equipment Description:

Tanker Loading System

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)	Particulate emissions (PE) from the stack associated with this emissions unit shall not exceed 2.4 pounds per hour and 5.0 tons per year. Fugitive PE shall not exceed 2.5 tons per year. Visible PE from any opening of the building housing this air contaminant source shall not exceed 10% opacity as a 3-minute average. Visible PE from the stack associated with this emissions unit shall not exceed 10% opacity as a 6-minute average. See b)(2)a, b)(2)b and b)(2)c.
b.	OAC rule 3745-31-05(D)(1)(b)	PE (fugitive and stack) shall not exceed 7.5 tons per year as a rolling, 12-month summation.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		See c)(2).
c.	OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-17-07(B)	See b)(2)d.
e.	OAC rule 3745-17-08(B)	See b)(2)e.
f.	OAC rule 3745-17-11(B)(1)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. Best available control measures (BACM) shall be employed to minimize fugitive PE. BACM shall include, but not be limited to, using a baghouse for dust collection and using good engineering practices.

b. BACM required by OAC rule 3745-31-05(A)(3) that are employed for this emissions unit shall be considered adequate if compliance with the visible PE limitation contained in OAC rule 3745-31-05(A)(3) is achieved.

c. The emissions from this emissions unit shall be vented to a baghouse at all times the emissions unit is in operation.

d. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

e. This emissions unit is not located within an “Appendix A” area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-07(B).

c) Operational Restrictions

(1) The permittee shall not operate this emissions unit without use of the baghouse for dust collection.

(2) The hours of operation of this emissions unit shall be limited to 4160 hours on a rolling, 12-month basis.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from any non-stack egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cuase of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emission unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

A visible emission incident does not necessarily constitute a violation of the visible PE emission limitation in b(1)a established pursuant to OAC rule 3745-31-05(A)(3). A visible emission incident which exceeds the visible PE emission limitation in b(1)a observed in accordance with Method 9 of 40 CFR Part 60, Appendix A, shall constitute a violation of the visible PE emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions from the exhaust stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that

no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

A visible emission incident does not necessarily constitute a violation of the visible PE emission limitation in b(1)a established pursuant to OAC rule 3745-31-05(A)(3). A visible emission incident which exceeds the visible PE emission limitation in b(1)a observed in accordance with Method 9 of 40 CFR Part 60, Appendix A, shall constitute a violation of the visible PE emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(3) The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned frequencies for performing the visible emission checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

(4) The acceptable range for the pressure drop across the baghouse shall be based upon the manufacturer's specifications, until such time as any required performance testing is conducted and/or an alternative pressure drop range and/or limit is established. The established pressure drop range shall include the manufacturer's specified pressure drop range.

(5) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit is in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

a. the date and time the deviation began;

b. the magnitude of the deviation at that time;

c. the date the investigation was conducted;

d. the name(s) of the personnel who conducted the investigation; and

e. 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 in this permit, 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.

f. a description of the corrective action;

g. the date corrective action was completed;

h. the date and time the deviation ended;

i. the total period of time (in minutes) during which there was a deviation;

j. the pressure drop readings immediately after the corrective action was implemented; and

k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

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

(6) The permittee shall maintain an operations log for this emissions unit. This operations log shall contain, at a minimum, the following information:

a. the total number of hours of operation for each day; and

b. the amount of material processed, in tons per hour.

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 PER shall cover a reporting period of no more than 12 months for each air contaminant source identified in this permit.

(2) The permittee shall identify in the annual PER the following information concerning the operations of the baghouse during the 12-month reporting period for this emissions unit:

a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;

b. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouse;

c. each incident of deviation described in "a" (above) where a prompt investigation was not conducted;

d. each incident of deviation described in "a" where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

Each incident of deviation described in "a" where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

(3) The permittee shall identify in the annual PER (a) all days during which any visible particulate emissions were observed from the exhaust stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions during the 12-month reporting period for this emissions unit.

(4) The permittee shall identify in the annual PER (a) all days during which any visible emission of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible emissions during the 12-month reporting period for this emissions unit.

f) Testing Requirements

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

a. Emission Limitation:

Visible PE from any opening of the building housing this air contaminant source shall not exceed 10% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance with the above emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(3).

b. Emission Limitation:

PE from the stack associated with this emissions unit shall not exceed 2.4 pounds per hour and 5.0 tons per year.

Applicable Compliance Method:

i. The permittee may determine the hourly particulate emission rate from the stack associated with this emissions unit using the following equation:

E = (X tons/hr) x (0.053 lb PE/ton)

where:

X = quantity of material processed, in ton(s) per hour; and

0.053 lb PE/ton = emissions factor based upon mass balance established by the permittee based upon the amount of material processed, the amount of dust collected, 99 percent capture efficiency, and 98 percent control efficiency.

The permittee may determine the annual particulate emission rate from the stack associated with this emissions unit by summing the hourly particulate emission rate annually or by multiplying the maximum hourly emission rate by 4160 hours.

ii. If required, compliance with the hourly particulate emission rate shall be determined while operating at maximum capacity in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03.

c. Emission Limitation:

PE (fugitive and stack) shall not exceed 7.5 tons per year as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the annual particulate emission rate shall be determined by summing the annual particulate emission rates for stack and fugitive emissions.

d. Emission Limitation:

Visible PE from the stack associated with this emissions unit shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance with the above emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).

e. Emission Limitation:

Fugitive PE shall not exceed 2.5 tons per year.

Applicable Compliance Method:

The permittee may determine the hourly fugitive particulate emission rate from this emissions unit using the following equation:

E = (X tons/hr) x (0.027 lb PE/ton)

where:

X = quantity of material processed, in ton(s) per hour; and

0.027 lb PE/ton = fugitive emission factor based upon mass balance established by the permittee based upon the amount of material processed, the amount of dust collected, 99 percent capture efficiency, and 98 percent control efficiency.

The permittee may determine the annual fugitive particulate emission rate associated with this emissions unit by multiplying the hourly fugitive particulate emission rate established above by the number of hours the emissions unit was in operation.

g) Miscellaneous Requirements

(1) None.