

Facility ID: 1667090000 Issuance type: Title V Final Permit

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. None

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b State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

- B002 - tar impregnation tar tank heater
- P008 - shrinkwrap tunnel
- P009 - tar impregnator preheater #2
- T005 - large fuel oil storage tank
- Z001 - tunnel kiln fuel oil storage tank
- Z002 - tar impregnation tar storage tank
- Z004 - silicanit storage tank
- Z005 - brick oil storage tank
- Z006 - tunnel kiln waste heat vent stack
- Z007 - tunnel kiln undercar cooling air exhaust
- Z008 - tunnel kiln dryer #1
- Z009 - tunnel kiln dryer #2
- Z020 - slide gate grinders
- Z021 - shipping room refractory shapes cleaner
- Z022 - large tar bond space heater
- Z023 - rack tunnel dryer

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a permit to install for the emissions unit.

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1667090000 Emissions Unit ID: F001 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
sandblasting operation - retort cleaning; controlled by an enclosure with a baghouse	OAC rule 3745-31-05 (PTI 16-762)	See A.I.2.b below.

2. Additional Terms and Conditions

- a. This facility is not located in an Appendix A area as described in OAC rule 3745-17-08; therefore, OAC rules 3745-17-07(B)(1) and 3745-17-08(B) do not apply to this emissions unit.
- b. The permittee shall employ hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control the fugitive dust. Such equipment shall meet the following requirements:
 - i. the collection efficiency shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and
 - ii. the control equipment shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible particulate emissions from the exhaust stack(s), which ever is less stringent.

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II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 4 to 8 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the 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 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 eliminate the visible emissions.

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IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.
- 3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

- 1. Compliance with the emission limitations in section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
 - no visible particulate emissions from the exhaust stack(s)
 - Applicable Compliance Method:
 - daily visible emission checks and OAC rule 3745-17-03(B)(4)
 - b. Emission Limitation:
 - 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases
 - Applicable Compliance Method:
 - Compliance shall be demonstrated by the monitoring and recording of the pressure drop across the baghouse as required in section A.III.1. Stack testing may be required in the future in accordance with the procedures and test method(s) in OAC rule 3745-17-03(B)(10).

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 1667090000 Emissions Unit ID: F001 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1667090000 Emissions Unit ID: P001 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
basic refractory line - unloading, grinding, screening, batching, and mixing with two baghouses as control	OAC rule 3745-17-07	See A.I.2.a below.
	OAC rule 3745-17-11	16.7 lbs/hr of particulates

OAC rule 3745-21-07(G)(2)

See A.I.2.b below.

2. Additional Terms and Conditions

- a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
- b. When employing, applying, evaporating, or drying any photochemically reactive material, or substance containing such photochemically reactive material, the permittee shall not discharge more than 40 pounds of organic material into the atmosphere in any one day, nor more than 8 pounds of organic material in any one hour.

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1. The pressure drop across each baghouse shall be maintained within the range of 4 to 8 inches of water while the emissions unit is in operation or the range of pressure drop in inches of water as established during the most recent emission test that demonstrated that the emissions unit was in compliance.

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1. The permittee shall maintain records of the following information for this emissions unit:
 - a. the MSDS sheets for each liquid organic raw material and cleanup material currently employed; and
 - b. documentation as to whether or not each liquid organic raw material and cleanup material is a photochemically reactive material.
2. If it is determined that a photochemically reactive material is being employed in this emissions unit, the permittee shall collect and record the following information for each day for this emissions unit:
 - a. the company identification for each liquid organic raw material and cleanup material employed;
 - b. documentation of whether each liquid organic raw material or cleanup material employed is a photochemically reactive material;
 - c. the number of gallons of each photochemically reactive cleanup material employed;
 - d. the organic compound content of each photochemically reactive cleanup material, in pounds per gallon;
 - e. the organic compound emission rate for all photochemically reactive cleanup materials, in pounds per day (i.e., the sum of (c) times (d) for each photochemically reactive cleanup material);
 - f. the organic compound emission rate for the mixing operation as determined using either equations from EIIIP Document Series Volume II: Point Sources - Chapter 8: Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing, Section 4.1 or an alternative method or emission factor which becomes available, provided that the alternative method or emission factor is mutually agreeable to the Ohio EPA, the Akron Regional Air Quality Management District, and the Harbison-Walker Refractories Co.;
 - g. for each day during which a photochemically reactive material is employed, the total organic compound emission rate for the mixing operation and the photochemically reactive cleanup materials, in pounds per day (i.e., (e) plus (f));
 - h. for each day during which a photochemically reactive material is employed, the total number of hours the emissions unit was in operation; and
 - i. for each day during which a photochemically reactive material is employed, the average hourly organic compound emission rate for the mixing operation and the photochemically reactive cleanup materials, (i.e., (g)/(h)), in pounds per hour (average).

[Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

3. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each baghouse on a daily basis.
4. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the 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 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. for the days during which a photochemically reactive material was employed, an identification of each day during which the average hourly organic compound emissions from the mixing operation and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - b. for the days during which a photochemically reactive material was employed, an identification of each day during which the organic compound emissions from the mixing operation and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
2. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across either baghouse did not comply with the allowable range specified above.
3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.
4. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. 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 6 months after issuance of the permit. Whether additional stack testing will be required and the frequency of the additional stack testing shall be determined based on the Ohio EPA, Office of Air Pollution Control, Division of Engineering, Engineering Guide #16.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Method 5 of 40 CFR Part 60, Appendix A .
 - 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 appropriate Ohio EPA District Office or local air agency.
2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 District Office's or local air agency's refusal to accept the results of the emission test(s).
3. Personnel from the appropriate Ohio EPA District Office or local air agency 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.
4. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.
5. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)
 - b. Emission Limitation:

16.7 lbs/hr of particulates

Applicable Compliance Method:

Compliance with the allowable mass emission rate shall be demonstrated by using Method 5 of 40 CFR Part 60, Appendix A and by monitoring and recording the pressure drop across the baghouse as required in section A.III.3.

c. Emission Limitation:

8.0 lbs/hr of organic material
40 lbs/day of organic material

Applicable Compliance Method:

Compliance shall be demonstrated based upon the daily record keeping of the emissions and hours of operation of the emissions unit as required in sections A.III.1 and A.III.2.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1667090000 Emissions Unit ID: P001 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1667090000 Emissions Unit ID: P002 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
refractory processing line - unloading, grinding, screening, batching, and mixing with three baghouses as control	OAC rule 3745-17-07	See A.I.2.a below.
	OAC rule 3745-17-11	19.2 lbs/hr of particulates
	OAC rule 3745-21-07(G)	See A.I.2.b below.

2. **Additional Terms and Conditions**

- a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
- b. When employing, applying, evaporating, or drying any photochemically reactive material, or substance containing such photochemically reactive material, the permittee shall not discharge more than 40 pounds of organic material into the atmosphere in any one day, nor more than 8 pounds in any one hour.

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II. **Operational Restrictions**

1. The pressure drop across each baghouse shall be maintained within the range of 4 to 8 inches of water while the emissions unit is in operation or the range of pressure drop in inches of water as established during the most recent emission test that demonstrated that the emissions unit was in compliance.

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

1. The permittee shall maintain records of the following information for this emissions unit:
 - a. the MSDS sheets for each liquid organic raw material and cleanup material currently employed; and
 - b. documentation as to whether or not each liquid organic raw material and cleanup material is a photochemically reactive material.
2. If it is determined that a photochemically reactive material is being employed in this emissions unit, the permittee shall collect and record the following information for each day for this emissions unit:
 - a. the company identification for each liquid organic raw material and cleanup material employed;

- b. documentation of whether each liquid organic raw material or cleanup material employed is a photochemically reactive material;
- c. the number of gallons of each photochemically reactive cleanup material employed;
- d. the organic compound content of each photochemically reactive cleanup material, in pounds per gallon;
- e. the organic compound emission rate for all photochemically reactive cleanup materials, in pounds per day (i.e., the sum of (c) times (d) for each photochemically reactive cleanup material);
- f. the organic compound emission rate for the mixing operation as determined using either equations from EIIIP Document Series Volume II: Point Sources - Chapter 8: Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing, Section 4.1 or an alternative method or emission factor which becomes available, provided that the alternative method or emission factor is mutually agreeable to the Ohio EPA, the Akron Regional Air Quality Management District, and the Harbison-Walker Refractories Co.;
- g. for each day during which a photochemically reactive material is employed, the total organic compound emission rate for the mixing operation and the photochemically reactive cleanup materials, in pounds per day (i.e., (e) plus (f));
- h. for each day during which a photochemically reactive material is employed, the total number of hours the emissions unit was in operation; and
- i. for each day during which a photochemically reactive material is employed, the average hourly organic compound emission rate for the mixing operation and the photochemically reactive cleanup materials, (i.e., (g)/(h)), in pounds per hour (average).

[Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

- 3. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each baghouse on a daily basis.
- 4. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the 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 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 eliminate the visible emissions.

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IV. Reporting Requirements

- 1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. for the days during which a photochemically reactive material was employed, an identification of each day during which the average hourly organic compound emissions from the mixing operation and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - b. for the days during which a photochemically reactive material was employed, an identification of each day during which the organic compound emissions from the mixing operation and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
- 2. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across any baghouse did not comply with the allowable range specified above.
- 3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.
- 4. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

- 1. Compliance with the emission limitations in sections A.1.1 and A.1.2 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:
 20% opacity as a 6-minute average
 Applicable Compliance Method:
 OAC rule 3745-17-03(B)(1)

- b. Emission Limitation:
 19.2 lbs/hr of particulates
 Applicable Compliance Method:
 Compliance shall be demonstrated by the monitoring and recording of the pressure drop across the baghouse as required by section A.III.3. Stack testing may be required in the future in accordance with the procedures and test method(s) in OAC rule 3745-17-03(B)(10).

- c. Emission Limitation:
 8.0 lbs/hr of organic material
 40 lbs/day of organic material
 Applicable Compliance Method:
 Compliance shall be demonstrated based upon the daily record keeping of the emissions and hours of operation of the emissions unit as required in sections A.III.1 and A.III.2.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1667090000 Emissions Unit ID: P002 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1667090000 Emissions Unit ID: P004 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
rotary heater to heat refractory grain with a baghouse as control	OAC rule 3745-17-07	See A.I.2.a below.
	OAC rule 3745-17-11	16.2 lbs/hr of particulates

2. Additional Terms and Conditions

- a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

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II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 4 to 8 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
- 2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the 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 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.
3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)
 - b. Emission Limitation:

16.2 lbs/hr of particulates

Applicable Compliance Method:

Compliance shall be demonstrated by the monitoring and recording of the pressure drop across the baghouse as required in section A.III.1. Stack testing may be required in the future in accordance with the procedures and test method(s) in OAC rule 3745-17-03(B)(10).

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VI. Miscellaneous Requirements

1. None

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Facility ID: 1667090000 Emissions Unit ID: P004 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1667090000 Emissions Unit ID: P006 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
tar impregnator preheater - preheat basic and high alumina refractory shapes	OAC rule 3745-17-07	See A.I.2.a below.

OAC rule 3745-17-11

13.6 lbs/hr of particulates

2. Additional Terms and Conditions

- a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

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1. None

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1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the 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 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 eliminate the visible emissions.

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1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
20% opacity as a 6-minute average
Applicable Compliance Method:
OAC rule 3745-17-03(B)(1)
 - b. Emission Limitation:
13.6 lbs/hr of particulates
Applicable Compliance Method:
Stack testing may be required in the future in accordance with the procedures and test method(s) in OAC rule 3745-17-03(B)(10).

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1. None

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Facility ID: 1667090000 Emissions Unit ID: P006 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1667090000 Emissions Unit ID: P007 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

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

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
tar impregnator autoclave and defumer - tar impregnation of refractory shapes with a catalytic incinerator as control	OAC rule 3745-17-07	See A.I.2.a below.
	OAC rule 3745-17-11	13.0 lbs/hr of particulates
	OAC rule 3745-21-07(G)	See A.I.2.b below.

2. **Additional Terms and Conditions**

- a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
- b. When employing, applying, evaporating, or drying any photochemically reactive material, or substance containing such photochemically reactive material, the permittee shall not discharge more than 40 pounds of organic material into the atmosphere in any one day, nor more than 8 pounds in any one hour.

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II. **Operational Restrictions**

1. The average temperature of the exhaust gases immediately before the catalyst bed, for any 3-hour block of time when the emissions unit is in operation, shall not be less than the temperature recommended by the manufacturer of the catalytic incinerator.

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

1. The permittee shall maintain records of the following information for this emissions unit:
- the MSDS sheets for each liquid organic raw material and cleanup material currently employed;
 - documentation as to whether or not each liquid organic raw material and cleanup material is a photochemically reactive material; and
 - when a new liquid organic raw material or cleanup material is going to be employed in this emissions unit, the permittee shall determine and document prior to employing the new liquid organic raw material or cleanup material whether or not it is a photochemically reactive material.
2. If it is determined that a photochemically reactive material is being employed in this emissions unit, the permittee shall collect and record the following information for each day for this emissions unit:
- the company identification for each liquid organic raw material and cleanup material employed;
 - documentation of whether each liquid organic raw material or cleanup material employed is a photochemically reactive material;
 - the number of gallons of each photochemically reactive cleanup material and each liquid organic raw material employed;
 - the organic compound content of each photochemically reactive cleanup material and each liquid organic raw material, in pounds per gallon;
 - for each day during which a photochemically reactive material is employed, the total organic compound emission rate for all photochemically reactive cleanup materials and all liquid organic raw material, in pounds per day (i.e., the sum of (c) times (d) for each photochemically reactive cleanup material and for each liquid organic raw material);
 - for each day during which a photochemically reactive material is employed, the total number of hours the emissions unit was in operation; and
 - for each day during which a photochemically reactive material is employed, the average hourly organic compound emission rate for all liquid organic raw materials and photochemically reactive cleanup materials, (i.e., (e)/(f)), in pounds per hour (average).

[Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

3. The permittee shall operate and maintain continuous temperature monitors which measure and display the temperature immediately upstream of the incinerator's catalyst bed when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring device shall be capable of accurately measuring the desired parameter. The temperature monitors shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the

permittee.

4. The permittee shall collect and record the following information each day:
 - a. the temperature of the exhaust gases immediately before the catalyst bed; and
 - b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
5. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the 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 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. for the days during which a photochemically reactive material was employed, an identification of each day during which the average hourly organic compound emissions from the raw materials and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - b. for the days during which a photochemically reactive material was employed, an identification of each day during which the organic compound emissions from the raw materials and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
2. The permittee shall submit deviation (excursion) reports that identify each day when the emissions unit was in operation during which the temperature of the exhaust gases immediately before the catalyst bed did not comply with the temperature limitation specified above.
3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.
4. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

1. Compliance with the emission limitations in sections A.1.1 and A.1.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)
 - b. Emission Limitation:

13.0 lbs/hr of particulates

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the procedures and test method(s) in OAC rule 3745-17-03(B)(10).
 - c. Emission Limitation:

8.0 lbs/hr of organic material
40 lbs/day of organic material

Applicable Compliance Method:

Compliance shall be demonstrated based upon the daily record keeping of the emissions and hours of operation of the emissions unit as required in sections A.III.1 and A.III.2.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1667090000 Emissions Unit ID: P007 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1667090000 Emissions Unit ID: P014 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
tunnel kiln #1 - firing of refractory shapes	OAC rule 3745-17-07 (PTI 16-214)	See A.I.2.a below.
	OAC rule 3745-17-11	11.96 lbs/hr of particulates

2. Additional Terms and Conditions

- a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the 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 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
 - 20% opacity as a 6-minute average
 - Applicable Compliance Method:
 - OAC rule 3745-17-03(B)(1)
 - b. Emission Limitation:
 - 11.96 lbs/hr of particulates
 - Applicable Compliance Method:
 - Stack testing may be required in the future in accordance with the procedures and test method(s) in OAC rule 3745-17-03(B)(10).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1667090000 Emissions Unit ID: P014 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1667090000 Issuance type: Title V Final Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 1667090000 Emissions Unit ID: P015 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
high alumina mixing with a baghouse as control	OAC rule 3745-31-05 (PTI 16-673)	2.15 lbs/hr of particulates
	OAC rule 3745-17-07	See A.I.2.a below.
	OAC rule 3745-17-11	See A.I.2.b below.
	OAC rule 3745-21-07(G)	See A.I.2.c below.

2. **Additional Terms and Conditions**

- a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
- b. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.
- c. When employing, applying, evaporating, or drying any photochemically reactive material, or substance containing such photochemically reactive material, the permittee shall not discharge more than 40 pounds of organic material into the atmosphere in any one day, nor more than 8 pounds in any one hour.

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II. **Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 8 inches of water while the emissions unit is in operation or the range of pressure drop in inches of water as established during the most recent emission test that demonstrated that the emissions unit was in compliance.

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

1. The permittee shall maintain records of the following information for this emissions unit:

- a. the MSDS sheets for each liquid organic raw material and cleanup material currently employed; and
 - b. documentation as to whether or not each liquid organic raw material and cleanup material is a photochemically reactive material.
2. If it is determined that a photochemically reactive material is being employed in this emissions unit, the permittee shall collect and record the following information for each day for this emissions unit:
- a. the company identification for each liquid organic raw material and cleanup material employed;
 - b. documentation of whether each liquid organic raw material or cleanup material employed is a photochemically reactive material;
 - c. the number of gallons of each photochemically reactive cleanup material employed;
 - d. the organic compound content of each photochemically reactive cleanup material, in pounds per gallon;
 - e. the organic compound emission rate for all photochemically reactive cleanup materials, in pounds per day (i.e., the sum of (c) times (d) for each photochemically reactive cleanup material);
 - f. the organic compound emission rate for the mixing operation as determined using either equations from EIIIP Document Series Volume II: Point Sources - Chapter 8: Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing, Section 4.1 or an alternative method or emission factor which becomes available, provided that the alternative method or emission factor is mutually agreeable to the Ohio EPA, the Akron Regional Air Quality Management District, and the Harbison-Walker Refractories Co.;
 - g. for each day during which a photochemically reactive material is employed, the total organic compound emission rate for the mixing operation and the photochemically reactive cleanup materials, in pounds per day (i.e., (e) plus (f));
 - h. for each day during which a photochemically reactive material is employed, the total number of hours the emissions unit was in operation; and
 - i. for each day during which a photochemically reactive material is employed, the average hourly organic compound emission rate for the mixing operation and the photochemically reactive cleanup materials, (i.e., (g)/(h)), in pounds per hour (average).
- [Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]
3. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
4. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the 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 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. for the days during which a photochemically reactive material was employed, an identification of each day during which the average hourly organic compound emissions from the mixing operation and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - b. for the days during which a photochemically reactive material was employed, an identification of each day during which the organic compound emissions from the mixing operation and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
2. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.
4. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to

the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. **Testing Requirements**

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)
 - b. Emission Limitation:

2.15 lbs/hr of particulates

Applicable Compliance Method:

Compliance shall be demonstrated by the monitoring and recording of the pressure drop across the baghouse as required by section A.III.3. Stack testing may be required in the future in accordance with the procedures and test method(s) in OAC rule 3745-17-03(B)(10).
 - c. Emission Limitation:

8.0 lbs/hr of organic material

40 lbs/day of organic material

Applicable Compliance Method:

Compliance shall be demonstrated based upon the daily record keeping of the emissions and hours of operation of the emissions unit as required in sections A.III.1 and A.III.2.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1667090000 Emissions Unit ID: P015 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. **Additional Terms and Conditions**

1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1667090000 Emissions Unit ID: P016 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
baking oven for refractory shapes with afterburner	OAC rule 3745-17-07 (PTI 16-291)	See A.I.2.a below.
	OAC rule 3745-17-11	4.15 lbs/hr of particulates for the low temperature bake cycle (TIB cycle) run which operated at a maximum production rate of 2034.8 lbs/hr during the stack test
		2.96 lbs/hr of particulates for the high temperature (TIHB) baking cycle which operated at a maximum production rate of 1231.6 lbs/hr during the stack test

2. Additional Terms and Conditions

- a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

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II. **Operational Restrictions**

1. The incinerator burners shall be shut off for the entire low temperature bake cycle (TIB cycle) run.
2. The incinerator shall be operated during the high temperature baking cycle (TIHB cycle) run. The incinerator operating temperatures (firing conditions) shall be dependent on the baking oven operating temperatures. The incinerator operating modes shall be:
 - a. Between the baking oven temperature range of ambient to 1000 degrees Fahrenheit, the combustion temperature within the incinerator shall be set at 450 degrees Fahrenheit.
 - b. When the oven temperature reaches 1000 degrees Fahrenheit, the incinerator burners shall go to a high fire condition and maintain a combustion temperature within the incinerator of 1800 degrees Fahrenheit.
 - c. The combustion temperature within the incinerator shall be maintained at 1800 degrees Fahrenheit for the remainder of the baking cycle. Once the oven cool-down cycle is completed, both the bake oven and incinerator shall be shut down.

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

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the oven temperature, combustion temperature of the incinerator, the date, and the time when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. The baking cycle shall be noted on the chart recorder for reference.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the 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 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 eliminate the visible emissions.

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IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify any time periods during which the required incinerator operating parameters specified in section A.II.2 of these terms and conditions were not met.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.
3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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V. **Testing Requirements**

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

4.15 lbs/hr of particulates
2.96 lbs/hr of particulates

Applicable Compliance Method:

Compliance shall be demonstrated by monitoring the temperature of the oven and the combustion chamber of the incinerator. Stack testing may be required in the future in accordance with the test method(s) and procedures in OAC rule 3745-17-03(B)(10).
 - b. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1667090000 Emissions Unit ID: P016 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1667090000 Emissions Unit ID: P901 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
refractory materials crusher	OAC rule 3745-31-05 (PTI 16-1785)	Visible particulate emissions from the exhaust stack shall not exceed 1% opacity, as a 6-minute average.
		1.5 lbs/hr of particulates from the exhaust stack
		6.6 tpy of particulates from the exhaust stack
		See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-17-11	See A.I.2.b below.

2. Additional Terms and Conditions

- a. There shall be no visible particulate emissions of fugitive dust from this emissions unit, except for a total cumulative time of 5 minutes during any 60-minute observation period.
- b. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.
- c. This facility is not located in an Appendix A area as described in OAC rule 3745-17-08; therefore, OAC rules 3745-17-07(B)(1) and 3745-17-08(B) do not apply to this emissions unit.

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II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 4 to 6 inches of water, while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the exhaust stack or any visible fugitive emissions from 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 color of the emissions;
- b. whether the emissions are representative of normal operations,
- c. whether 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.
3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions from the exhaust stack or any visible fugitive emissions from this emissions unit were observed and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
1% opacity as a 6-minute average
Applicable Compliance Method:
OAC rule 3745-17-03(B)(1)
 - b. Emission Limitation:
1.5 lbs/hr of particulates
Applicable Compliance Method:
Compliance shall be demonstrated by the monitoring and recording of the pressure drop across the baghouse as required by section A.III.3. Stack testing may be required in the future in accordance with the procedures and test method(s) in OAC rule 3745-17-03(B)(10).
 - c. Emission Limitation:
6.6 tpy of particulates
Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the hourly particulate emissions limitation by 8760 hours per year, and dividing by 2000 lbs/ton.
 - d. Emission Limitation:
no visible particulate emissions of fugitive dust from this emissions unit, except for a total cumulative time of 5 minutes during any 60-minute observation period
Applicable Compliance Method:
OAC rule 3745-17-03(B)(4)

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VI. Miscellaneous Requirements

1. None

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Facility ID: 1667090000 Issuance type: Title V Final Permit

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Facility ID: 1667090000 Emissions Unit ID: P901 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None