

Facility ID: 1431092049 Issuance type: Title V Draft 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. The only storage piles authorized by this permit are those identified in the terms and conditions for emissions units F004, F007, F008, F009, F010 and F011.

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b State Only Enforceable Section

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

- B001 - natural gas fired boiler
- Z003 - tire shredding operations
- Z004 - composting operations
- Z012 - UST diesel tank #7
- Z013 - UST diesel tank #8
- Z014 - UST diesel tank #9
- Z015 - UST diesel tank #10
- Z016 - AST engine oil tank
- Z017 - AST hydraulic oil tank
- Z018 - cold cleaners
- Z019 - waste oil furnace
- Z023 - AST leachate holding tank
- Z024 - AST antifreeze tank
- Z025 - AST diesel tank #11
- Z026 - AST diesel tank #12
- Z027 - AST diesel tank #13
- Z028 - 151 light plant on flag diesel IC engine
- Z029 - 166 light plant diesel IC engine
- Z030 - 167 light plant diesel IC engine
- Z031 - 80134 light plant diesel IC engine
- Z032 - 80135 light plant diesel IC engine
- Z033 - rental I-42 light plant diesel IC engine
- Z034 - generator (< 600 HP)
- Z035 - 103 air compressor diesel IC engine
- Z036 - 217 tire shredder (600 HP)
- Z039 - 6x6 10 series Gormann-Rupp 6x6 pump (55 HP)
- Z040 - 3x3 Godwin-Godwin pump (55 HP)
- Z041 - brake wash operations
- Z042 - 180 light plant diesel IC engine (15.3 HP)
- Z043 - RU 116 light plant diesel IC engine (22 HP)
- Z044 - HL5 Godwin pump (230 HP)
- Z045 - portable tire shredder
- Z046 - 150 light plant diesel IC engine
- Z047 - portable tire shredder
- Z048 - portable tire shredder
- Z049 - 80924 air compressor diesel IC engine
- Z998 - portable 300 TPH rental stone crusher
- Z999 - rental stone crusher diesel IC engine

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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- [Go to Part III for Emissions Unit F010](#)
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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1431092049 Emissions Unit ID: F001 Issuance type: Title V Draft 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> |
|--|---|--|
| paved roadways and parking areas | OAC rule 3745-31-05(A)(3) (PTI 14-4770) | no visible particulate emissions except for 1 minute during any 60-minute period best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See Sections A.I.2.b through A.I.2.g.) |
| unpaved roadways | OAC rule 3745-31-05(A)(3) (PTI 14-4770) | no visible particulate emissions except for 3 minutes during any 60-minute period best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See Sections A.I.2.b through A.I.2.g.) |
| paved and unpaved roadways and paved parking areas | OAC rule 3745-17-07(B)(4)&(5) OAC rule 3745-17-08(B) | The visible emission limitations specified by this rule are less stringent than the visible emission limitations established pursuant to OAC rule 3745-31-05(A)(3). The control requirements specified by this rule are less stringent than the control requirements established pursuant to OAC rule 3745-31-05(A)(3). |

2. Additional Terms and Conditions

- a. The paved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

- (a)
 - paved roadways:
 - paved roadway 1, asphalt
 - paved roadway 2, concrete
 - paved parking areas:
 - all paved parking areas, concrete

The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

unpaved roadways:

all unpaved roadways, dirt

- b. The permittee shall employ best available control measures on all paved and unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas with water flushing and sweeping, and the unpaved roadways with water or other dust suppressant chemicals at sufficient treatment frequencies to ensure compliance. When allowed by weather, all trucks exiting the landfill shall travel through the wheel wash located before the scale area. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- c. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or an unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- d. Any unpaved roadway, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled using appropriate dust control measured for paved surfaces. Any unpaved roadway that takes the characteristics of a paved roadway due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways. Any unpaved roadway that is paved shall be subject to a visible emission limitation for paved roadways and parking area.
- e. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- f. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- g. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the paved and unpaved roadways and parking areas in accordance with the following frequencies:
 - paved roadways minimum inspection frequency
 - all twice daily (and not less than 4 hour apart) during operation
 - paved parking areas minimum inspection frequency
 - all twice daily (and not less than 4 hour apart) during operation
 - unpaved roadways minimum inspection frequency
 - all twice daily (and not less than 4 hour apart) during operation
2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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IV. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit (paragraph A.1.c.).

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V. Testing Requirements

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

Emission Limitation:

visible emissions limitations in Section A.1

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 1431092049 Emissions Unit ID: F001 Issuance type: Title V Draft 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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paved and unpaved roadways and paved parking areas

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: 1431092049 Emissions Unit ID: F004 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
|---|--------------------------------------|--|

| | | |
|---|---------------------------|--|
| F004 - mineral extraction, including drilling, blasting and loading | OAC rule 3745-31-05(A)(3) | 106.52 lbs/day of particulate emissions (PE) |
|---|---------------------------|--|

0.21 lb/hr of PE from the stack exhaust from the drilling operation.
 16.95 tons per year (TPY) of PE

54.26 lbs/day of particulate matter with a diameter of 10 microns or less (PM10 emissions)

8.68 TPY of PM10 emissions.

Visible PE from any fugitive dust emissions point shall not exceed 20% opacity, as a 3-minute average.

See Sections A.I.2 and A.II.

OAC rule 3745-17-07(A)(1)

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
 Visible PE from any stack shall not exceed twenty percent 20% opacity, as a 6-minute average, except as specified by rule.

OAC rule 3745-17-11(B)

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. Emissions from the drilling of blast holes shall be vented to a multicyclone followed by a baghouse with a 99%, by weight, control efficiency of PE.
- b. The drop height shall be minimized during the load out operation of blasted material.
- c. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of a multicyclone and baghouse for the drilling operation, limiting the blasts, holes drilled and amount of material loaded, the visible particulate emission limitations and the emission limitations.

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II. **Operational Restrictions**

- 1. The maximum daily production rates for mineral extraction shall not exceed 24,000 tons of aggregate loaded, 3 blasts and 200 holes drilled.
- 2. The maximum annual production rate for mineral extraction shall not exceed 7,020,000 tons of aggregate loaded, 1,000 blasts and 50,000 holes drilled.

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

- 1. The permittee shall collect and record the amount of aggregate loaded out, in tons, the number of holes drilled, and the number of blasts on a daily basis.
- 2. The permittee shall collect and record the amount of aggregate loaded out, number of holes drilled, and number of blasts (the summation of A.III.1) on a monthly basis.
- 3. The permittee shall perform daily checks, when the emissions unit is in operation, and when the weather conditions allow, for any abnormal visible particulate emissions from the fabric filter exhaust. The presence or absence of abnormal visible emissions shall be noted in an operations log. If abnormal 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 abnormal visible emission incident; and
 - e. any corrective actions taken to eliminate the abnormal visible emissions.

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IV. **Reporting Requirements**

- 1. The permittee shall submit quarterly deviation (excursion) reports that identify any exceedances of the production limitations specified in term A.II.1.
- 2. The permittee shall submit quarterly written reports which (a) identify all days during which abnormal visible particulate emissions were observed escaping from the fabric filter exhaust and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These quarterly reports shall be submitted to the Hamilton County Department of Environmental Services by January 30, April 30, July 30 and October 30 of each year and cover the previous calendar quarter.
- 3. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms

and Conditions of this permit.

4. The permittee shall submit annual reports summarizing the total production of aggregate loaded out, the number of blasts and number of holes drilled. This report shall be submitted by April 15 of each year and shall address the previous calendar year.

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V. Testing Requirements

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

Emission Limitation:

20% opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).

2. Emission Limitation:

20% opacity, as a three-minute average

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) through (B)(3)(b) of OAC rule 3745-17-03.

3. Emission Limitation:

106.52 lbs/day PM
16.95 TPY PM

Applicable Compliance Method:

Compliance shall be determined by the recordkeeping requirements in Section A.III.1 and A.III.2. The emission limitations specified in the PTI are based on production limitations. Therefore, compliance with production limitations ensure compliance with the emission limitations. If specific emission calculations are required, the emission factors and control efficiencies found in PTI application 14-05382, submitted on November 8, 2002 shall be used.

4. Emission Limitation:

54.26 lbs/day PM-10
8.68 TPY of PM-10

Applicable Compliance Method:

Compliance shall be determined by the recordkeeping requirements in Section A.III.1 and A.III.2. The emission limitations specified in the PTI are based on production limitations. Therefore, compliance with production limitations ensure compliance with the emission limitations. If specific emission calculations are required, the emission factors and control efficiencies found in PTI application 14-05382, submitted on November 8, 2002 shall be used.

5. Compliance with the operational restrictions in Section A.II.1 and A.II.2 shall be demonstrated by the recordkeeping in Section A.III.1 and A.III.2.

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VI. Miscellaneous Requirements

1. The term and conditions listed in this permit to install shall supersede the terms and conditions of PTI 14-04379, for this emissions unit issued on August 20, 1997 and modified on July 22, 1998.

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Facility ID: 1431092049 Emissions Unit ID: F004 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
|---|--------------------------------------|--|

F004 - mineral extraction, including drilling, blasting and loading

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

Emission Limitation:

20% opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996 except as provided under OAC rule 3745-17-07(A)(1)(b).

2. Emission Limitation:

20% opacity, as a three-minute average

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) through (B)(3)(b) of OAC rule 3745-17-03.

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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: 1431092049 Emissions Unit ID: F007 Issuance type: Title V Draft 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> |
|---|--|--|
| F007 - 150 ton/hr portable soil shredding operation, including material handling, screening and storage piles | OAC rule 3745-31-05(A)(3) | 4.08 lbs of particulate emissions (PE)/hour* 0.5 lb of particulate matter 10 microns or less in diameter (PM10 emissions)/hour* 10.79 TPY of PE 2.85 TPY of PM10 emissions * The hourly emission limitations outlined above are based upon the emission unit's potential to emit. Therefore, no hourly recordkeeping or reporting is required to demonstrate compliance with these limits. The lbs of PE and PM10/hr emission limitations established in PTI 14-05382 are for the material handling and screening operations only. The hourly PE emissions from the storage piles associated with this emissions unit are not included in this emission limitation. See section A.II.3. The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO, and OAC 3745-17-08(B). The fugitive visible PE limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart OOO. See sections A.II.1 and A.II.2. See section A.I.2.a., and d. below. |
| | OAC rule 3745-17-07(B) | |
| | OAC rule 3745-17-08(B) 40 CFR, Part 60, Subpart OOO | |

2. Additional Terms and Conditions

- a. Fugitive visible PE from any transfer point on belt conveyors and from any other emissions point (excluding crushers, and truck dumping, storage pile load-in/load-out, and wind erosion) where process materials are not saturated, shall not exceed 10% opacity, except as provided by rule 40 CFR 60.672.
- b. There shall be no fugitive visible PE from any material storage pile associated with this emissions unit, except for one minute during any 60-minute observation period.
- c. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by throughput limitation, opacity and visible emissions limitations, maintain moisture content of processed soil/rock and reduced drop height from loading.
- d. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

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II. **Operational Restrictions**

1. Material processed through this emissions unit shall contain sufficient moisture to minimize or eliminate visible particulate emissions of fugitive dust at all times when this emissions unit is in operation. The moisture content shall be sufficient to demonstrate compliance with the visible particulate emissions specified in this permit. Should the moisture content prove insufficient to be able to demonstrate compliance with the visible emission limitations within this permit, additional control measures shall be employed.
2. During the unloading onto or removal from the material storage piles associated with this emissions unit, the drop height of the front end loader and stackers shall be minimized in order to minimize or eliminate visible particulate emissions of fugitive dust.
3. The maximum annual amount of material processed throughput in this emissions unit shall not exceed 500,000 tons/yr.
4. The maximum combined amount of material throughput in emissions units F007 and F008 shall not exceed 7,305 tons per day.
5. The maximum number of processed soil storage piles in emissions unit F007 and F008 shall not exceed two, and the maximum quantity of processed soil stored shall not exceed 18,000 tons per pile.

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

1. The permittee shall maintain the following information each day for this emissions unit:
 - a. the total amount of material throughput, in tons; and
 - b. the total amount of material throughput for emissions unit F007 and F008, in tons;
 - c. the total number of processed soil storage piles for emissions unit F007 and F008; and
 - e. the amount of processed soil in each storage pile, in tons.
2. The permittee shall maintain monthly records of the total amount of material processed through this emissions unit, in tons [summation of A.III.1.a for each day of the calendar month].
3. The permittee shall maintain annual records of the total amount of material processed through this emissions unit, in tons [summation of A.III.2 for each month of the calendar year].
4. On days when this emissions unit is in operation, the permittee shall inspect the shredding operation, material handling operations, and storage piles to ensure that the moisture content of the soil present is sufficient to minimize or eliminate fugitive visible particulate emissions. Should abnormal fugitive visible emissions be present, additional control measures shall be employed to further minimize or eliminate fugitive visible emissions. The results of this inspection and any corrective measures taken to minimize or eliminate fugitive visible emissions shall be recorded in a log book.

The above-mentioned inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary when snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above mentioned applicable requirements.

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IV. **Reporting Requirements**

1. The permittee shall submit annual reports that identifies the amount of soil throughput in this emissions unit. This report shall be submitted by January 30 of each year and shall address the previous calendar year.
2. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. Each day during which an inspection required in Section A.III.2 was not performed, excluding an inspection which was not performed due to an exemption for snow and/or ice or precipitation;
 - b. Each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented; and
 - c. Any exceedance of the limitations in terms A.II.4 and 5.
3. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I. shall be determined in accordance with the following methods:

Emission Limitation: 10% opacity

Applicable Compliance Method: Compliance with the opacity limits of this permit shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002 and modifications listed in paragraph B(3)(a) and B(3)(b) of OAC rule 3745-17-03.

The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

2. Emission Limitations: 4.08 lbs of PE/hr; 0.5 lb of PM10 emissions/hr

Applicable Compliance Method: Compliance shall be determined by calculating emissions using the following equations:

$$\text{lbs of PE} = (A) \times (B) \times (1 - C)$$

$$\text{lbs of PM10} = (A) \times (B) \times (1 - C)$$

where,

A = PE or PM10 emission factor, as calculated from AP-42 section Sections 11.3 (August, 1997) and 13.2.4, (January, 1995). See emission calculations detailed in PTI application 14-05382 for specific emission factors (load-in, load-out, shredding, etc) .

B = maximum hourly throughput of 150 tons.

C = control efficiency, detailed in PTI application 14-05382.

3. Emission Limitations: 10.79 TPY of PE; 2.85 TPY of PM10 emissions

Applicable Compliance Method: Compliance shall be determined by calculating emissions using the following equation:

$$\text{TPY of PE} = (A) \times (B) \times (1 - C) \times 0.0005$$

$$\text{TPY of PM10} = (A) \times (B) \times (1 - C) \times 0.0005$$

where:

A = PE or PM10 emission factor, as calculated from AP-42 Sections 11.3 (August, 1997) and 13.2.4, (January, 1995) and USEPA BACM Guidance Document Equation 2-12. See emission calculations detailed in PTI application 14-05382 for specific emission factors (load-in, load-out, shredding, etc)

B = total annual throughput, in tons, from Section A.III.3.

C = control efficiency detailed in PTI application 14-05382.

4. Emission Limitation: No visible PE of fugitive dust from any material storage pile associated with this emissions unit, except for one minute during any 60-minute observation period.

Applicable Compliance Method: Compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

5. Compliance with the production throughput limitation specified in Section A.II.3 shall be determined by the record keeping requirements in Section A.III.3.

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VI. Miscellaneous Requirements

1. Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;

b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO), permit to install (PTI) or registration status;

c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and

d. In the Hamilton County Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the OAC rule 3745-15-07.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

e. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;

f. the portable emissions unit is equipped with best available technology;

- g. the portable emission unit owner has identified the proposed site to the Ohio EPA;
 - h. the Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - i. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - j. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - k. The portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to Section A.VI.1. above, shall be valid for no longer than three years and are subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

- 2. The term and conditions of PTI 14-05382 shall supersede the terms and conditions of PTI 14-04771 and PTI 06-05712 for emissions units F007, F008, F009, F010 and F011.
- 3. The limitations in terms A.II.4 and A.II.5 may be waived if the field office this emissions unit is being relocated to approves and the emissions unit's operation at the new location will be in compliance with all applicable federal and State laws and regulations.
- 4. The daily operational restrictions in terms A.II.4 and A.II.5 will become applicable to this emissions unit upon the commencement of construction of a landfill gas control system required in PTI 14-05292. This emissions unit shall remain in compliance at all times with all applicable federal and State laws and regulations.

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Facility ID: 1431092049 Emissions Unit ID: F007 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
| F007 - 150 ton/hr portable soil shredding operation, including material handling, screening and storage piles | | |

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: 1431092049 Emissions Unit ID: F008 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
| F008 - 250 ton/hour portable soil shredding operation, including material handling, screening and storage piles | OAC rule 3745-31-05(A)(3) | 6.8 lbs of particulate emissions (PE)/hour* 0.83 lbs of particulate matter with a diameter of 10 microns or less (PM10 emissions)/hour* |

10.79 TPY of PE
2.85 TPY of PM10 emissions

* The hourly emission limitations outlined above are based upon the emission unit's potential to emit. Therefore, no hourly record keeping or reporting is required to demonstrate compliance with these limits.

The lbs of PE and PM10 emissions/hr emission limitations established in PTI 14-05382 are for the material handling and screening operations only. The hourly PE emissions from the storage piles associated with this emissions unit are not included in this emission limitation.

See section A.II.3.

- | | | |
|--|---|---|
| | | The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO, and OAC rule 3745-17-08(B). |
| | 40 CFR Part 60, Subpart OOO OAC rule 3745-17-07(B) | See section A.II.2.a, and d below. |
| | OAC rule 3745-17-08(B) | The fugitive visible PE limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart OOO. See sections A.II.1 and A.II.2. |
2. **Additional Terms and Conditions**
- a. Fugitive visible PE from any transfer point on belt conveyors and from any other emissions point (excluding crushers, truck dumping, storage pile load-in/load-out, and wind erosion) where process materials are not saturated, shall not exceed 10% opacity, except as provided by rule 40 CFR 60.672.
 - b. There shall be no fugitive visible PE from any material storage pile associated with this emissions unit, except for one minute during any 60-minute observation period.
 - c. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by throughput limitation, opacity and visible emissions limitations, maintain moisture content of processed soil and reduced drop height from loading.
 - d. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

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II. Operational Restrictions

1. Material processed through this emissions unit shall contain sufficient moisture to minimize or eliminate visible particulate emissions of fugitive dust at all times when this emissions unit is in operation. The moisture content shall be sufficient to demonstrate compliance with the visible particulate emissions specified in this permit. Should the moisture content prove insufficient to be able to demonstrate compliance with the visible emission limitations within this permit, additional control measures shall be employed.
2. During the unloading onto or removal from the material storage piles associated with this emissions unit, the drop height of the front end loader and stackers shall be minimized in order to minimize or eliminate visible particulate emissions of fugitive dust.
3. The maximum amount of material throughput in this emissions unit shall not exceed 500,000 tons/yr.
4. The maximum combined amount of material throughput in emissions units F007 and F008 shall not exceed 7,305 tons per day.
5. The maximum number of processed soil storage piles in emissions units F007 and F008 shall not exceed two, and the maximum quantity of processed soil stored shall not exceed 18,000 tons per pile.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain the following information each day for this emissions unit:
 - a. the total amount of material throughput, in tons;
 - b. the total amount of material throughput for emissions unit F007 and F008, in tons;
 - c. the total number of processed soil storage piles for emissions unit F007 and F008; and
 - d. the amount of processed soil in each storage pile, in tons.
2. The permittee shall maintain monthly records of the total amount of material processed through this emissions unit, in tons [summation of A.III.a for each day of the calendar month].
3. The permittee shall maintain annual records of the total amount of material processed through this emissions unit, in tons [summation of A.III.2 for each month of the calendar year].
4. On days when this emission unit is in operation, the permittee shall inspect the shredding operation, material handling operations, and storage piles to ensure that the moisture content of the soil present is sufficient to minimize or eliminate fugitive visible particulate emissions. Should abnormal fugitive visible emissions be present, additional control measures shall be employed to further minimize or eliminate fugitive visible emissions. The results of this inspection and any corrective measures taken to minimize or eliminate fugitive visible emissions shall be recorded in a log book.

The above-mentioned inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary when snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above mentioned applicable requirements.

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IV. **Reporting Requirements**

1. The permittee shall submit annual reports that identifies the amount of soil throughput in this emissions unit. This report shall be submitted by January 30 of each year and shall address the previous calendar year.
2. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. Each day during which an inspection required in Section A.III.2 was not performed, excluding an inspection which was not performed due to an exemption for snow and/or ice or precipitation; and
 - b. Each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.;
 - c. Any exceedance of the limitations in terms A.II.4 and 5.
3. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I. shall be determined in accordance with the following methods:

Emission Limitation: 10% opacity

Applicable Compliance Method: Compliance with the opacity limits of this permit shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002 and modifications listed in paragraph B(3)(a) and B(3)(b) of OAC rule 3745-17-03.

The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
2. Emission Limitations: 6.8 lbs of PE/hr; 0.83 lbs of PM10 emissions/hr

Applicable Compliance Method: Compliance shall be determined by calculating emissions using the following equations:

$$\text{lbs of PE} = (A) \times (B) \times (1 - C)$$

$$\text{lbs of PM10} = (A) \times (B) \times (1 - C)$$

where:

A = PE or PM10 emission factor, as calculated from AP-42 Sections 11.3 (August, 1997) and 13.2.4, (January, 1995). See emission calculations detailed in PTI application 14-05382 for specific emission factors (load-in, loud-out, shredding, etc) .

B = maximum hourly throughput of 250 tons.

C = control efficiency, detailed in PTI application 14-05382.
3. Emission Limitations: 10.79 TPY of PE; 2.85 TPY of PM10 emissions

Applicable Compliance Method: Compliance shall be determined by calculating emissions using the following equation:

$$\text{TPY of PE} = (A) \times (B) \times (1 - C) \times 0.0005$$

$$\text{TPY of PM10} = (A) \times (B) \times (1 - C) \times 0.0005$$

where:

A = PE or PM10 emission factor, as calculated from AP-42 Sections 11.3 (August, 1997) and 13.2.4, (January, 1995) and USEPA BACM Guidance Document Equation 2-12. See emission calculations detailed in PTI application 14-05382 for specific emission factors (load-in, loud-out, shredding, etc) .

B = total annual throughput, in tons, from Section A.III.3.

C = control efficiency, detailed in PTI application 14-05382.
4. Emission Limitation: No visible PE of fugitive dust from any material storage pile associated with this emissions unit, except for one minute during any 60-minute observation period.

Applicable Compliance Method: Compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.
5. Compliance with the production limitation specified in Section A.II.3 shall be determined by the record keeping requirements in Section A.III.3.

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VI. **Miscellaneous Requirements**

1. Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;

b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO), permit to install (PTI) or registration status;

c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and

d. In the Hamilton County Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the OAC rule 3745-15-07.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

e. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;

f. the portable emissions unit is equipped with best available technology;

g. the portable emission unit owner has identified the proposed site to the Ohio EPA;

h. the Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;

i. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;

j. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and

k. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to Section A.VI.1 above, shall be valid for no longer than three years and are subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

2. The term and conditions of PTI 14-05382 shall supersede the terms and conditions of PTI 14-04771 and PTI 06-05712 for emissions units F007, F008, F009, F010 and F011.

3. The limitations in terms A.II.4 and A.II.5 may be waived if the field office where this emissions unit is being relocated to approves and the emissions unit's operation at the new location will be in compliance with all applicable federal and State laws and regulations.

4. The daily operational restrictions in terms A.II.4 and A.II.5 will become applicable to this emissions unit upon the commencement of construction of a landfill gas control system required in PTI 14-05292. This emissions unit shall remain in compliance at all times with all applicable federal and State laws and regulations.

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Facility ID: 1431092049 Emissions Unit ID: F008 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
|---|--------------------------------------|--|

| | | |
|---|--|--|
| F008 - 250 ton/hour portable soil shredding operation, including material handling, screening and storage piles | | |
|---|--|--|

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. Emission Limitation:

No visible PE of fugitive dust from any material storage pile associated with this emissions unit, except for one minute during any 60-minute observation period.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

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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: 1431092049 Emissions Unit ID: F009 Issuance type: Title V Draft 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> |
|---|--|--|
| F009 - 400 ton/hour portable soil/rock crushing operation including screening, transfer and conveying | OAC rule 3745-31-05(A)(3) | 17.36 lbs of particulate emissions (PE)/hour* 59.26 lbs/day of PE 32.5 tons per year (TPY) of PE from the soil/rock crushing, transferring and conveying operation. |
| | | 7.46 lbs of particulate matter with a diameter of 10 microns or less (PM10 emissions)/hour* 29.55 lbs/day of PM10 emissions 13.95 TPY of PM10 emissions from the soil/rock crushing, transferring and conveying operation |
| | | * The hourly emission limitations outlined above are based upon the emission unit's potential to emit. Therefore, no hourly record keeping or reporting is required to demonstrate compliance with these limits. |
| | | See section A.II.3. |
| | 40 CFR Part 60, Subpart OOO OAC rule 3745-17-07(B)(1) | The requirements of this rule also include compliance with the requirements of 40 CFR, Part 60, Subpart OOO, and OAC rule 3745-17-08(B). See sections A.I.2.a., b., and d. below. The fugitive visible PE limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR, Part 60, Subpart OOO. |
| | OAC rule 3745-17-08(B) | See sections A.II.1 |

2. Additional Terms and Conditions

- a. Fugitive visible PE from any transfer point on belt conveyors and from any other emissions point (excluding crushers and truck dumping) where process materials are not saturated, shall not exceed 10% opacity, except as provided by rule 40 CFR 60.672.
- b. Fugitive visible PE from any crusher shall not exceed 15% opacity.
- c. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the throughput limitation, opacity and visible emissions limitations, maintain moisture content of processed soil/rock and reduced drop height from loading.
- d. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

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II. Operational Restrictions

1. Material processed through this emissions unit shall contain sufficient moisture to minimize or eliminate visible particulate emissions of fugitive dust at all times when this emissions unit is in operation. The moisture content shall be sufficient to demonstrate compliance with the visible particulate emissions specified in this permit. Should the moisture content prove insufficient to be able to demonstrate compliance with the visible emission limitations within this permit, additional control measures shall be employed.
2. The maximum daily amount of soil/rock throughput in this emissions unit shall not exceed 6,100 tons/day. The maximum annual amount of soil/rock throughput in this emissions unit shall not exceed 1,497,600 tons/yr.
3. The maximum amount of rock throughput in this emissions unit shall not exceed the amount calculated by the following equation:

6,100 tons/day - (0.835 x soil shredded, tons per day)

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the total amount, in tons, of material (soil/rock) processed in this emissions unit.
2. The permittee shall maintain monthly records of the total amount of material (soil/rock) processed in this emissions unit, in tons [summation of A.III.1 for each day of the calendar month].
3. The permittee shall maintain annual records of the total amount of material (soil/rock) processed in this emissions unit, in tons [summation of A.III.2 for each month of the calendar year].
4. On days when this emission unit is in operation, the permittee shall inspect the crushing operation, and material handling operations, to ensure that the moisture content of the soil present is sufficient to minimize or eliminate fugitive visible particulate emissions. Should abnormal fugitive visible emissions be present, additional control measures shall be employed to further minimize or eliminate fugitive visible emissions. The results of this inspection and any corrective measures taken to minimize or eliminate fugitive visible emissions shall be recorded in a log book.

The above-mentioned inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary when snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above mentioned applicable requirements.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the material throughput limitation specified in Section A.II.2.
2. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each day during which an inspection required in Section A.III.2 was not performed, excluding an inspection which was not performed due to an exemption for snow and/or ice or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
3. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

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V. Testing Requirements

1. If the initial visible PE testing has not already been conducted then 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 sixty days after achieving the maximum production rate but no later than 180 days after modification of this emissions unit to 400 tons per hour.
 - b. The emission testing shall be conducted to demonstrate compliance with the visible particulate emission limitations specified in Sections A.I.2.a. and A.I.2.b. of this permit.
 - c. Compliance with the opacity limits of this permit shall be determined by using US EPA Reference Test Method 9. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
 - 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 Hamilton County Department of Environmental Services; Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Department of Environmental Services.

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 Hamilton County Department of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Hamilton County Department of Environmental Services 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.

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 Hamilton County Department of Environmental

Services within 30 days following completion of the test(s).

2. Emission Limitations: 32.5 TPY of PE; 13.95 TPY of PM10 emissions

Applicable Compliance Method: Compliance shall be determined by calculating emissions using the following equation:

$$\text{TPY of PE} = (A) \times (B) \times (1 - C) \times 0.0005$$

$$\text{TPY of PM10} = (A) \times (B) \times (1 - C) \times 0.0005$$

where:

A = PE or PM10 emission factor, as calculated from AP-42 Sections 11.3 (August, 1997) and 13.2.4, (January, 1995). See emission calculations detailed in PTI application 14-05382 for specific emission factors (load-in, load-out, shredding, etc) .

B = total annual throughput, in tons, from Section A.III.3.

C = control efficiency, detailed in PTI application 14-05382.

3. Emission Limitations: 17.36 lbs of PE/hr; 7.46 lbs of PM10 emissions/hr

Applicable Compliance Method: Compliance shall be determined by calculating emissions using the following equations:

$$\text{lbs of PE} = (A) \times (B) \times (1 - C)$$

$$\text{lbs of PM10} = (A) \times (B) \times (1 - C)$$

where:

A = PE or PM10 emission factor, as calculated from AP-42 Sections 11.3 (August, 1997) and 13.2.4, (January, 1995). See emission calculations detailed in PTI application 14-05382 for specific emission factors (load-in, load-out, shredding, etc) .

B = maximum hourly throughput of 400 tons.

C = control efficiency, detailed in PTI application 14-05382.

4. Compliance with the production limitation specified in Section A.II.2 shall be determined by the record keeping requirements in Section A.III.3.

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VI. **Miscellaneous Requirements**

1. Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;

b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO), permit to install (PTI) or registration status;

c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and

d. In the Hamilton County Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the OAC rule 3745-15-07.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

e. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;

f. the portable emissions unit is equipped with best available technology;

g. the portable emission unit owner has identified the proposed site to the Ohio EPA;

h. the Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;

i. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;

j. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and

k. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to Section A.VI.1 above, shall be valid for no longer than three years and are subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

2. The term and conditions of PTI 14-05382 shall supersede the terms and conditions of PTI 14-04771 and PTI 06-05712 for emissions units F007, F008, F009, F010 and F011. Emissions units identified in PTI 06-05712 as F003, F004 and F005 are identified in PTI 14-05382 as F009, F010 and F011, respectively.
3. The daily throughput and daily emissions limit may be waived if the field office where this emissions unit is being relocated to approves and the emissions unit's operation at the new location will be in compliance with all applicable federal and State laws and regulations.
4. The daily operational restriction in term A.II.2 will become applicable to this emissions unit upon the commencement of construction of a landfill gas control system required in PTI 14-05292. This emissions unit shall remain in compliance at all times with all applicable federal and State laws and regulations.

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Facility ID: 1431092049 Emissions Unit ID: F009 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
|---|--------------------------------------|--|

| | | |
|---|--|--|
| F009 - 400 ton/hour portable soil/rock crushing operation including screening, transfer and conveying | | |
|---|--|--|

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: 1431092049 Emissions Unit ID: F010 Issuance type: Title V Draft 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> |
|--|--------------------------------------|--|
| F010 - load-in, load-out and wind erosion from crushed soil/rock storage piles | OAC rule 3745-31-05(A)(3) | 26.8 tons per year (TPY) of particulate emissions (PE) |
| | | 13.4 TPY of particulate matter with a diameter of 10 microns or less (PM10 emissions) |
| | | Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.b through A.I.2.f) |
| | | No visible PE from any storage pile associated with this emissions unit, except for one minute during any 60-minute observation period. |
| | OAC rule 3745-17-07(B)(1) | The opacity restrictions specified by this rule are less stringent than opacity restrictions established pursuant to OAC rule 3745-31-05(A)(3). |
| | OAC rule 3745-17-08(B) | The control measure(s) specified by this rule are same as the control measures established pursuant to OAC rule 3745-31-05(A)(3). |

2. **Additional Terms and Conditions**

- a. The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:
 - (a) crushed soil/rock storage piles
- b. The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to watering and reduced drop height for load-in, and watering for load-out to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- c. The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of

- each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- d. The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to watering and maintaining low pile height to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
 - e. The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
 - f. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).

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II. Operational Restrictions

1. The maximum amount of crushed soil/rock processed throughput through in this emissions unit shall not exceed 1,497,600 tons per year.
2. The maximum daily amount of soil/rock throughput in this emissions unit shall not exceed 6,100 tons per day.
3. The maximum number of storage piles in this emissions unit shall not exceed three, and the maximum quantity of material stored shall not exceed 50,000 tons per pile.
4. The maximum amount of soil/rock throughput in this emissions unit shall not exceed the amount calculated by the following equation:
6,100 tons/day - (0.835 x soil shredded, tons per day)

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III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each the load-in operation at each storage pile in accordance with the following frequencies:
storage pile identification:
all
minimum load-in inspection frequency:
once daily during operation
2. Except as otherwise provided in this section, the permittee shall perform inspections of each the load-out operation at each storage pile in accordance with the following frequencies:
storage pile identification:
all
minimum load-out inspection frequency:
once daily during operation
3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:
storage pile identification:
all
minimum wind erosion inspection frequency:
once daily during operation
4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has

(have) ended, except if the next required inspection is within one week.

5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
7. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 7.d shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.
8. The permittee shall maintain daily records of the total amount of material (crushed soil/rock) processed through this emissions unit, in tons.
9. The permittee shall maintain daily records of the following information:
 - a. the total number of processed soil/rock storage piles for this emissions unit; and
 - b. the amount of processed material (soil/rock) in each storage pile, in tons.
10. The permittee shall maintain monthly records of the total amount of material (soil/rock) processed from all storage piles associated with this emissions unit, in tons [summation of A.III.9.b for each day of the calendar month].
11. The permittee shall maintain annual records of the total amount of all material (soil/rock) processed in this emissions unit, in tons [summation of A.III.10 for each month of the calendar year].

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation;
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented; and
 - c. any exceedance of the material (soil/rock) throughput limitations specified in Sections A.II.2 and A.II.3.
2. The permittee shall submit annual reports that identifies the total amount of crushed material (soil/rock) processed in this emissions unit for the calendar year, in tons. This report shall be submitted by April 15 of each year and shall address the previous calendar year.
3. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

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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:

Emission Limitation:

no visible PE, except for 1 minute during any 60-minute period

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule

3745-17-03.

2. Emission Limitation:

26.8 TPY of PE
13.4 TPY of PM10 emissions

Applicable Compliance Method:

The TPY limit was established based upon emission calculations using AP-42, Chapter 13.2 and 13.4 (10/96) emission factors and USEPA BACM Guidance Document Equation 2-12. Compliance shall be determined by using AP-42 emission factors and the appropriate operating information from the monitoring and record keeping requirements contained in this permit and the control efficiency and emission calculations detailed in PTI Application # 14-05382.

3. Material Throughput Restrictions: The maximum amount of material (crushed soil/rock) processed throughput through in this emissions unit shall not exceed 6,100 tons per day and 1,497,600 tons per year.

Applicable Compliance Method: Compliance with the daily material throughput restriction shall be determined by the record keeping requirements specified in Section A.III.8.

Compliance with the annual material throughput restriction shall be determined by the record keeping requirements specified in Section A.III.11.

4. Storage Pile Restriction: The maximum number of storage piles in this emissions unit shall not exceed three, and the maximum quantity of material stored shall not exceed 50,000 tons per pile.

Applicable Compliance Method: Compliance with the storage pile restriction shall be determined by the record keeping requirements specified in Section A.III.9

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VI. Miscellaneous Requirements

- The term and conditions of PTI 14-05382 shall supersede the terms and conditions of PTI 14-04771 and PTI 06-05712 for emissions units F007, F008, F009, F010 and F011. Emissions units identified in PTI 06-05712 as F003, F004 and F005 are identified in PTI 14-05382 as F009, F010 and F011, respectively.
- The daily operational restrictions in terms A.II.2, A.II.3 and A.II.4 will become applicable to this emissions unit upon the commencement of construction of a landfill gas control system required in PTI 14-05292. This emissions unit shall remain in compliance at all times with all applicable federal and State laws and regulations.

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Facility ID: 1431092049 Emissions Unit ID: F010 Issuance type: Title V Draft 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.

- None.

I. Applicable Emissions Limitations and/or Control Requirements

- 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> |
|---|--------------------------------------|--|
|---|--------------------------------------|--|

| | | |
|--|--|--|
| F010 - load-in, load-out and wind erosion from crushed soil/rock storage piles | | |
|--|--|--|

2. Additional Terms and Conditions

- 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. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:

no visible PE, except for 1 minute during any 60-minute period

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

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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: 1431092049 Emissions Unit ID: F011 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
| F011 - crushed soil/rock miscellaneous material handling operations | OAC rule 3745-31-05(A)(3) | 0.34 lb/hour of particulate emissions (PE)* 0.63 ton per year (TPY) of PE 0.16 lb/hour of particulate matter with a diameter of 10 microns or less (PM10 emissions)* 0.30 TPY of PM10 emissions |

* The hourly emission limitations outlined above are based upon the emission unit's potential to emit. Therefore, no hourly recordkeeping or reporting is required to demonstrate compliance with these limits

Visible PE shall not exceed 20% opacity, as a three-minute average

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c through A.2.e)

OAC rule 3745-17-07(B)(1)

The visible PE limitation specified by this rule is the same as the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-08(B)

The control measure(s) specified by this rule are equivalent to the control measures established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of watering, visible emissions restriction, throughput restriction, and reduced drop height of crushed soil.
- b. The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:
 - Load-in and load-out of the crusher, vehicles, and other miscellaneous material handling
- c. The permittee shall employ best available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:
 - material handling operation(s):
 - Front-end rubber-tire loader dumping
 - control measure(s):
 - watering, minimizing drop height during load-in, load-out and unloading
 - Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. For each material handling operation, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- e. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).

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II. Operational Restrictions

- 1. The throughput of excavated material (soil/rock) in this emissions unit shall not exceed 1,497,600 tons per year.
- 2. The maximum daily amount of material (soil/rock) throughput in this emissions unit shall not exceed 6,100 tons per day.
- 3. The maximum amount of soil/rock throughput in this emissions unit shall not exceed the amount calculated by the following equation:
 - 6,100 tons/day - (0.835 x soil shredded, tons per day)

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III. Monitoring and/or Record Keeping Requirements

- 1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:
 - material handling operation(s):

Front-end rubber-tire loader dumping

minimum inspection frequency:

once daily during operation

2. The above-mentioned inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary when snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above mentioned applicable requirements.
3. The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates the control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 4.d shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.
5. The permittee shall maintain daily records of the total amount of excavated material (soil/rock) throughput, in tons, in this emissions unit.
6. The permittee shall maintain monthly records of the total amount of material (soil/rock) processed from all storage piles associated with this emissions unit, in tons [summation of A.III.5 for each day of the calendar month].
7. The permittee shall maintain annual records of the total amount of all material (soil/rock) processed in this emissions unit, in tons [summation of A.III.6 for each month of the calendar year].

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice or precipitation;
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented; and
 - c. any exceedance of the material throuput restrictions specified in Section A.II.2.
2. The permittee shall submit annual reports that specifies the total amount of excavated material (soil/rock) processed in this emissions unit for the calendar year, in tons. This report shall be submitted by January 30 of each year and shall address the previous calendar year.
3. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

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V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. shall be determined in accordance with the following methods:

Emission Limitation: 20% opacity, as a three-minute average

Applicable Compliance Method: Compliance with the visible emissions limitation for the material handling operation(s) identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.
2. Emission Limitation: 0.63 TPY of PE; 0.30 TPY PM10 emissions

Applicable Compliance Method: The TPY limits were established based upon emission calculations using AP-42, Section 13.2.4 (January 1995) emission factors. Compliance shall be determined by using AP-42 emission factors and the appropriate operating information from the monitoring and record keeping requirements contained in this permit, and control efficiency and emission calculations detailed in PTI

application # 14-05382.

3. Emission Limitation: 0.34 lb/hour of PE; 0.16 lb/hour of PM10 emissions

Applicable Compliance Method: The hourly emission limits were established based upon emission calculations using AP-42, Section 13.2.4 (January 1995) emission factors. Compliance shall be determined by using AP-42 emission factors and the appropriate operating information from the monitoring and record keeping requirements contained in this permit and control efficiency and emission calculations detailed in PTI application # 14-05382.

4. Material Throughput Restrictions: The maximum amount of material (crushed soil/rock) processed throughput through in this emissions unit shall not exceed 6,100 tons per day and 1,497,600 tons per year.

Applicable Compliance Method: Compliance with the daily material throughput restriction shall be determined by the record keeping requirements specified in Section A.III.5.

Compliance with the annual material throughput restriction shall be determined by the record keeping requirements specified in Section A.III.7.

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VI. **Miscellaneous Requirements**

1. The term and conditions of PTI 14-05382 shall supersede the terms and conditions of PTI 14-04771 and PTI 06-05712 for emissions units F007, F008, F009, F010 and F011. Emissions units identified in PTI 06-05712 as F003, F004 and F005 are identified in PTI 14-05382 as F009, F010 and F011, respectively.
2. The daily operational restrictions in term A.II.2 and A.II.3 will become applicable to this emissions unit upon the commencement of construction of a landfill gas control system required in PTI 14-05292. This emissions unit shall remain in compliance at all times with all applicable federal and State laws and regulations.

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Facility ID: 1431092049 Emissions Unit ID: F011 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
|---|--------------------------------------|--|

| | | |
|---|--|--|
| F011 - crushed soil/rock miscellaneous material handling operations | | |
|---|--|--|

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. Compliance with the emission limitations in Section A.I. shall be determined in accordance with the following methods:

Emission Limitation:

20% opacity, as a three-minute average

Applicable Compliance Method:

Compliance with the visible emissions limitation for the material handling operation(s) identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 1431092049 Emissions Unit ID: K001 Issuance type: Title V Draft 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> |
|---|--------------------------------------|---|
| K001 - paint shop container booth, with a dry filtration system | OAC rule 3745-31-05(A)(3) | 70.0 lbs of volatile organic compounds (VOC) emissions/day from coatings 12.6 tons per year (TPY) of VOC emissions from coatings 33.0 lbs of acetone emissions/day from cleanup materials 4.62 TPY of acetone emissions from cleanup materials 0.551 lb/hour of PE/particulate matter with a diameter of 10 microns or less (PM10 emissions) 2.41 TPY of PE/PM10 emissions See Section A.II. below. |

- OAC rule 3745-17-11(B)
- OAC rule 3745-17-07(A)(1)
- OAC rule 3745-21-09(U)(1)(c)

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1), 3745-17-11(B), and 3745-21-09(U)(1)(c).
 PE shall not exceed 0.551 lb/hr (based on Table I of OAC rule 3745-17-11).
 Visible PE shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
 3.5 lbs of VOC/gallon of coating, excluding water and exempt solvents, as applied

2. Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by coating and cleanup material usage limits, and the coating VOC content limitation.

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II. Operational Restrictions

- 1. The maximum coating usage for this emissions unit shall not exceed 20 gallons per day and 7,200 gallons per year, excluding water and exempt solvents.
- 2. The maximum cleanup material (acetone) usage for this emissions unit shall not exceed 5 gallons per day and 1,400 gallons per year.
- 3. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall collect and record the the following information for each day for this emissions unit:
 - a. the company identification for each coating material employed;
 - b. the number of gallons of each coating employed, excluding water and exempt solvents;
 - c. the VOC content of each coating, in pounds of VOC per gallon of coating, excluding water and exempt solvents, as applied;
 - d. the total VOC emissions [the summation of (b x c) for all coatings employed], in pounds;
 - e. the total coating usage for all the coatings employed (the summation of b for all coatings), in gallons, excluding water and exempt solvents;
 - f. the name and identification of each cleanup material employed;
 - g. the number of gallons of each cleanup material employed;
 - h. the organic compound (OC) of each cleanup material (acetone) employed, in pounds per gallon; and
 - i. the total emissions from all cleanup materials (g x h), in pounds.
- 2. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the total gallons of all coatings employed [summation of A.III.1.b for each day of the calendar month]; and
 - b. the total gallons of all cleanup material employed [summation of A.III.1.g for each day of the calendar month];
 - c. the total VOC emissions from all coatings employed [summation of the VOC emissions from Section A.III.1.d for each day of the calendar month]; and
 - d. the total OC emissions from all cleanup materials employed [summation of the OC emissions from Section A.III.1.i for each day of the calendar month].
- 3. The permittee shall maintain annual records of the following information:
 - a. the total gallons of all coatings employed [summation of A.III.2.a for each month of the calendar year];
 - b. the total gallons of all cleanup material employed [summation of A.III.2.b for each month of the calendar year];
 - c. the total VOC emissions from all coatings employed [summation of the VOC emissions from Section A.III.2.c for each month of the calendar year]; and
 - d. the total OC emissions from all cleanup materials employed [summation of the OC emissions from Section A.III.2.d for each month of the calendar year].
- 4. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. any exceedances of the daily coatings usage restriction of 20 gallons, excluding water and exempt solvents.
 - b. any exceedances of the daily acetone usage restriction of 5 gallons;
 - c. any exceedances of the daily VOC emission limitation of 70.0 pounds; and
 - d. any exceedances of the daily acetone emission limitation of 33.0 pounds.
2. The quarterly deviation reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that specify the total coating and cleanup material usage, in gallons, for the calendar year. In addition, the permittee shall submit annual reports to Hamilton County Department of Environmental Services that specify the total VOC emissions from all coatings and cleanup materials employed for the calendar year.

Each report shall be submitted by January 31 of each year and cover the previous year of operation.
4. The permittee shall notify the Hamilton County Department of Environmental Services of any daily record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days after the event occurs.

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V. Testing Requirements

1. Compliance with the emission limitations and material usage restrictions specified in Sections A.I.1 and A.II shall be determined in accordance with the following methods:

Emission Limitation: 3.5 lbs of VOC/gallon of coating, excluding water and exempt solvents.

Applicable Compliance Method: Compliance shall be determined based upon the record keeping requirements specified in Section A.III.1 of this permit. USEPA Method 24 shall be used to determine the VOC content for the coatings.

If, pursuant to, 40 CFR, Part 60, Appendix A, the permittee determines that Method 24 cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24.
2. Emission Limitation: 70.0 lbs of VOC emissions/day from coatings

Applicable Compliance Method: Compliance shall be determined based on the record keeping requirements specified in Section A.III.1 of this permit.
3. Material Usage Restrictions: 20 gallons per day and 7,200 gallons per year of coatings usage, excluding water and exempt solvents; 5 gallons per day and 1,400 gallons per year of acetone usage.

Applicable Compliance Method: Compliance with the daily material usage restrictions shall be determined based on the record keeping requirements specified in Section A.III.1.

Compliance with the annual material usage restrictions shall be determined based on the record keeping requirements specified in Section A.III.3.
4. Emission Limitation: Visible PE shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.

Applicable Compliance Method: Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002 and modifications listed in paragraph B(3)(a) and B(3)(b) of OAC rule 3745-17-03.
5. Emission Limitation: 0.551 lb of PE/PM10 emissions/hr

Applicable Compliance Method: Compliance with the hourly allowable PE/PM10 limitation may be determined in accordance with the following method:

To determine the actual worst case emission rate for PE, the following equation shall be used:

$$E = \text{maximum coating solids usage rate (in pounds per hour)} \times (1 - TE) \times (1 - CE)$$

where:

$$E = \text{PE rate (lbs/hr)}$$

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used.

CE = control efficiency of the control equipment.

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation in accordance with Methods 1 through 5 in Appendix A of 40 CFR, Part 60.

- 6. Emission Limitation: 2.41 TPY of PE/PM10 emissions

Applicable Compliance Method: The annual PE/PM10 emission limitation was determined by multiplying hourly PE/PM10 emission rate of 0.551 lb/hour by 8,760 hours/year, and dividing by 2000 pounds per ton. Therefore, compliance with the annual PE/PM10 emission limitation is ensured while compliance with the hourly PE/PM10 emission limitation is maintained.

- 7. Emission Limitation: 12.6 TPY of VOC emissions from coatings; 4.62 TPY of VOC emissions from cleanup materials (acetone)

Applicable Compliance Method: Compliance with the annual VOC emission limitations shall be determined by the record keeping requirements specified in Section A.III.3.

- 8. Emission Limitation: 33.0 lbs acetone emissions/day from cleanup materials

Applicable Compliance Method: Compliance with the daily acetone emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

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VI. **Miscellaneous Requirements**

- 1. The terms and conditions in this permit to install shall supersede permit to install 14-02888 issued on March 17, 1993 for this emissions unit.

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Facility ID: 1431092049 Emissions Unit ID: K001 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
|---|--------------------------------------|--|

| | | |
|--|--|--|
| K001 - paint shop container booth, with ry filtration system | | |
|--|--|--|

- 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. The permit to install for this emissions unit (K001) was evaluated based on the actual materials (typically

coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: acetone

TLV (ug/m3): 1,188,000

Maximum Hourly Emission Rate (lbs/hr): 33

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1,284

MAGLC (ug/m3): 28,286

Physical changes to or in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the "Air Toxic Policy":

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. when the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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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: 1431092049 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 1431092049 Emissions Unit ID: K002 Issuance type: Title V Draft 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> |
|---|--------------------------------------|---|
| K002 - paint shop truck Booth, with dry filtration system | OAC rule 3745-31-05(A)(3) | 50.0 lbs of volatile organic compounds (VOC)/day from all coatings employed |
| | | 8.15 tons per year (TPY) of VOC emissions from all coatings employed |
| | | 33.0 lbs acetone emissions/day from cleanup materials |
| | | 4.62 TPY of acetone from cleanup materials |
| | | 0.551 lb/hour of particulate emissions (PE)/particulate matter with a diameter of 10 microns or less (PM10 emissions) |
| | | 2.41 TPY of PE/PM10 emissions |
| | | See Sections A.I.2 and A.II below. |
| | | The requirement of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(B). |
| | OAC rule 3745-17-11(B) | PE/PM10 emissions shall not exceed 0.551 lb/hr (based on Table I of OAC rule 3745-17-11). |
| | OAC rule 3745-17-07(A)(1) | Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule. |
| | OAC rule 3745-21-09(U)(1) | Exempt, pursuant to OAC rule 3745-21-09(U)(2)(c) for used motor vehicle refinishing. |

2. Additional Terms and Conditions

- a. The VOC content of the coatings employed shall not exceed 4.53 lbs of VOC/gallon of coating, excluding water and exempt solvents, based on a monthly, volume-weighted average, as applied.
- b. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by coating and cleanup material usage limitations, and the coating VOC content limitation.

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II. Operational Restrictions

1. The maximum coating usage for this emissions unit shall not exceed 10 gallons per day and 3,600 gallons per year, excluding water and exempt solvents.
2. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.
3. The maximum cleanup material (acetone) usage for this emissions unit shall not exceed 5 gallons per day and 1,400 gallons per year.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for this emissions unit:
 - a. the company identification for each coating material employed;
 - b. the number of gallons of each coating employed, excluding water and exempt solvents.

- c. the VOC content of each coating, in pounds of VOC per gallon of coating, excluding water and exempt solvents, as applied.
 - d. the total VOC emissions, in pounds [the summation of (b x c) for all coatings];
 - e. the total coating usage for all the coatings employed, in gallons (the summation of b for all coatings), excluding water and exempt solvents;
 - f. the name and identification of each cleanup material employed;
 - g. the number of gallons of each cleanup material employed;
 - h. the density of each cleanup material, in pounds per gallon;
 - i. the total emissions from all cleanup materials (g x h), in pounds.
2. The permittee shall collect and record the the following information each month for this emissions unit:
 - a. The total number of gallons for all the coatings employed (the summation of the daily gallon usage rates, from Section A.III.1.e, for the calendar month).
 - b. The total VOC emissions for all the coatings employed (the summation of the daily VOC emission rates, from Section A.III.1.d, for the calendar month).
 - c. The monthly, volume-weighted average VOC content for all the coatings employed in this emissions unit (b/a).
 3. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following :
 - a. Any exceedances of the daily coating usage restrictions of 10 gallons, excluding water and exempt solvents.
 - b. Any exceedances of the daily VOC limitation of 50.0 pounds;
 - c. Any exceedances of the daily acetone usage restrictions of 5 gallons.
 - d. Any exceedances of daily acetone emission limitation of 33.0 pounds.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
2. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days following the end of the calendar month.
3. The permittee shall notify the Hamilton County Department of Environmental Services of any daily record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days after the event occurs.
4. The permittee shall submit annual reports which specify the total annual coating and cleanup material usage in this emissions unit. These reports shall be submitted by January 31 of each year.

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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:

VOC Content Limitation:

4.53 lbs of VOC/gallon of coating, excluding water and exempt solvents, based on a monthly volume weighted average.

Applicable Compliance Method:

Compliance shall be determined based on the record keeping requirements specified in Section A.III.2 of this permit.

USEPA Method 24 shall be used to determine the VOC content for coatings and cleanup materials. If, pursuant to 40 CFR, Part 60, Appendix A, the permittee determines that Method 24 cannot be used for a particular coating and/or cleanup materials, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating and/or cleanup materials to demonstrate compliance until the

USEPA provides alternative analytical procedures or alternative precision statements for Method 24.

2. Emission Limitation:
50.0 lbs of VOC/day
Applicable Compliance Method:
Compliance shall be determined based on the record keeping requirements specified in Section A.III.1. of this permit.
3. Emission Limitation:
10 gallons per day and 3600 gallons per year of coatings usage, excluding water and exempt solvents
5 gallons per day and 1,400 gallons per year of acetone usage
Applicable Compliance Method:
Compliance shall be determined based on the record keeping requirements specified in Sections A.III.1.
4. Emission Limitation:
20% opacity, as a 6-minute average
Applicable Compliance Method:
Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002 and modifications listed in paragraph B(3)(a) and B(3)(b) of OAC rule 3745-17-03.
5. Emission Limitation:
0.551 lb of PE/hr
Applicable Compliance Method:
Compliance with the hourly allowable PE and PM10 limitation may be determined in accordance with the following method:
To determine the actual worst case emission rate for PE, the following equation shall be used:
$$E = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$$
where:
$$E = \text{PE rate (lbs/hr)}$$
$$TE = \text{transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used.}$$
$$CE = \text{control efficiency of the control equipment.}$$
If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation in accordance with Methods 1 through 5 in Appendix A of 40 CFR, Part 60.
6. Emission Limitation:
2.41 TPY of PE and PM
Applicable Compliance Method:
Compliance shall be determined by multiplying 0.551 lb/hour by 8760 hours per year and dividing by 2000 pounds per ton.
7. Emission Limitation:
8.15 TPY VOC
Applicable Compliance Method:
Compliance shall be determined by a summation of the daily VOC emissions from term A.III.1.
8. Emission Limitation:
33.0 lbs acetone/day from cleanup materials
Applicable Compliance Method:
Compliance shall be determined by the record keeping in term A.III.1.
9. Emission Limitation:
4.62 TPY of acetone from cleanup materials
Applicable Compliance Method:

Compliance shall be determined by a summation of the daily acetone emissions from term A.III.1.

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VI. **Miscellaneous Requirements**

1. The terms and conditions in this permit to install shall supersede permit to install 14-02888 issued on March 17, 1993 for this emissions unit.

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Facility ID: 1431092049 Emissions Unit ID: K002 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
| K002 - Paint Shop Truck Booth, with Dry Filtration System | | |
| 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. The permit to install for this emissions unit (K002) was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: acetone

TLV (ug/m3): 1,188,000

Maximum Hourly Emission Rate (lbs/hr): 33

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1,284

MAGLC (ug/m3): 28,286

Physical changes to or in the method of operation of the emissions unit after it's installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee

determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the "Air Toxic Policy":

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of it's evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. when the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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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: 1431092049 Emissions Unit ID: P002 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
| P902 - Solid waste disposal and landfill gas | OAC rule 3745-31-05(A)(3) | Emissions from the gas recovery plant (stack |

generation - Slope reconstruction modification

MSW landfill equipped with active gas collection and control system (flare/landfill gas recovery for sale or use)

emissions) shall not exceed the following:

7.91 lbs/hour NMOC
34.65 TPY NMOC

599 TPY Methane

9.68 lbs/hour CO
42.44 TPY CO

0.2 lb/hour PM
0.86 TPY PM

0.2 lb/hour PM10
0.86 TPY PM10

1.5 lbs/hour NOx
6.66 TPY NOx

1.62 lbs/hour SO2
7.11 TPY SO2

25.62 TPY HCl

3.28 TPY HF

Fugitive emissions from this emissions unit shall not exceed the following:

448 TPY of NMOC emissions

41,687 TPY Methane

17.33 TPY of CO emissions

0.48 TPY of PE

0.23 TPY of PM10 emissions

See Sections A.I.2.f, A.I.2.g A.I.2.i and A.II.9.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-20, 3745-23-06(B), Federal regulations 40 CFR Part 60 Subpart WWW and 40 CFR Part 61 Subpart M and A.II.10 - A.II.14.

40 CFR, Part 60, Subpart WWW

40 CFR Part 61, Subparts A and M and OAC rule 3745-20

OAC rule 3745-17-07(A)

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

OAC rule 3745-23-06(B)

40 CFR Part 63, Subpart AAAA

OAC rule 3745-21-08(B)

OAC rule 3745-23-06(B)

See Sections A.I.2.g, A.I.2.i, A.II.7 and A.II.8.

See Sections A.I.2.h

See Section A.I.2.m

See Section A.I.2.a

See Sections A.II.16 and 17

2. Additional Terms and Conditions

- a. The permittee shall minimize the NOx emissions from this emissions unit by the use of the best available control techniques and operating practices in accordance with best current technology.
- b. The active collection system shall satisfy the following requirements, as specified in 40 CFR, Part 60.752(b)(2)(ii)(A):
 - i. The system shall be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system equipment.
 - iii. The system shall collect gas at a sufficient extraction rate.
 - iv. The system shall be designed to minimize off-site migration of subsurface gas.
 - v. The system shall collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period of 5 years or more if active, or 2 years or more if closed or at final grade.
- c. The permittee shall comply with either of the following:
 - i. All landfill gas collected shall be routed to a control system designed and operated within the

- parameters demonstrated during the performance test to reduce non-methane organic compound (NMOC) emissions by 98 percent by weight, or when an enclosed combustion device is used for control, to either reduce NMOC emissions by 98 percent by weight or reduce the outlet NMOC emission concentration to less than 20 parts per million (ppm) by volume, dry basis as hexane at 3 percent oxygen. The term enclosed combustor shall include the thermal oxidizer (TOx) units 1 and 2 at the Rumpke Recovery Plant.
- ii. Route the collected gas to a treatment system that processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements of 40 CFR, Part 60.752(b)(2)(iii)(A) or (B).
- d. The collection and control system may be capped or removed provided that all of the following conditions, as specified in 40 CFR, Part 60.752(b)(2)(v), are met:
 - i. The landfill shall be a closed landfill as defined in 40 CFR Part 60.751. A closure report shall be submitted to the Department of Environmental Services as provided in 60.757(d).
 - ii. The collection and control system shall have been in operation a minimum of 15 years.
 - iii. Following the procedures specified in 40 CFR 60.754(b), the calculated NMOC gas produced by the landfill shall be less than 55 TPY on three successive test dates. The test dates shall be no less than 90 days apart, and no more than 180 days apart.
 - e. The equipment that constitutes the gas collection and control system shall be properly maintained and kept in good operating condition at all times.
 - f. For all waste handling materials, except asbestos-containing materials (ACM):
 - i. The fugitive visible PE shall not exceed 20% opacity, as a 3-minute average.
 - ii. Use of reasonably available control measures, to minimize or eliminate the emissions of fugitive dust.
 - g. For Asbestos Containing Material (ACM):
 - i. There shall be no visible emissions.
 - ii. Use of handling procedures and control measures, to prevent the emissions of fugitive dust.
 - h. Visible PE from any stack shall not exceed 20% opacity, as a 6--minute average, except as specified by rule.
 - i. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the visible particulate emissions limitations, a well designed and well operated landfill gas collection system and a control system capable of reducing NMOC in the collected gas by 98 percent or an outlet concentration of 20 ppmv hexane at 3 percent oxygen, reasonable available control measures to minimize or eliminate emissions of fugitive dust from solid waste disposal operations, compliance with 40 CFR Part 60 Subpart WWW, 40 CFR Part 61 Subpart M and 40 CFR Part 63 Subpart AAAA and compliance with the Air Toxics Policy.
 - j. The hourly emission limitation outlined is based upon the emissions unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with this limit.
 - k. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
 - l. The application and enforcement of the provisions of the National Emission Standards for Hazardous Air Pollutants (NESHAP), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 61, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 61 are also federally enforceable.
 - m. All waste organic materials vented to an open flare shall be burned by a smokeless flare.

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II. Operational Restrictions

1. Whenever the enclosed combustor is in operation, the average combustion temperature shall be at least 1,400 degrees Fahrenheit, for any 3-hour block of time (or higher temperature needed to ensure a 98%, by weight, destruction of the NMOCs), measured by the temperature indicator.
2. The permittee shall operate the collection system such that gas is collected from each area, cell, or group of

cells in the MSW landfill in which solid waste has been in place for 5 years or more if active, or for 2 years or more if closed or at final grade.

3. The permittee shall operate the collection system with negative pressure at each wellhead except under the following conditions:
 - a. A fire or increased well temperature (the permittee shall record all instances when positive pressure occurs in efforts to avoid a fire).
 - b. Use of a geomembrane or synthetic cover (the permittee shall develop acceptable pressure limits in the design plan).
 - c. A decommissioned well (a well may experience a static positive pressure after shutdown to accommodate for declining flows. All design changes shall be approved by the Director of Ohio EPA).
4. The permittee shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55 degrees Celsius and with either a nitrogen level less than 20% or an oxygen level less than 5%. The permittee may establish a higher operating temperature, nitrogen level, or oxygen level at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.
5. The permittee shall operate the collection system so that the methane concentration is less than 500 ppm above background at the surface of the landfill.
6. The permittee shall operate the collection system such that all collected gases are vented to a control system designed and operated in compliance with A.1.2.d.c. In the event, the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within one hour.
7. Disposal Requirements for ACM:
 - a. There shall be no visible emissions from ACM during on-site transportation, transfer, unloading, deposition or compacting operations.
 - b. The permittee shall implement and maintain an "Asbestos Disposal Operating Procedure and Spill Contingency Plan" ("Plan") consisting of: authorized personnel training, inspection and disposal operating procedures, non-conforming load response procedures, inventory and maintenance procedures for safety and emissions control equipment, record keeping procedures, and emergency notification procedures. Authorized personnel shall be knowledgeable in the procedures, and the Plan shall be available for inspection at this facility at all times.
 - c. The permittee shall inspect each load of ACM delivered to the facility. The inspection shall consist of a visual examination to ensure that each shipment of ACM is received in intact, leak-tight containers labeled with appropriate hazard warning labels, the name of the waste generator, and the location of waste generation. The inspection also shall determine whether the waste shipment records accompany the consignment and accurately describe the waste material and quantity.

If on the basis of the inspection, the waste material is found to be improperly received, the load shall be disposed of in accordance with the procedures in the "Asbestos Spill Contingency Plan," and the discrepancy shall be noted on the waste shipment record.
 - d. Deposition and burial operations shall be conducted in a careful manner that prevents asbestos-containing waste materials from being broken up or dispersed before the materials are buried.
 - e. The permittee shall establish restricted access, adequate to deter the unauthorized entry of the general public and any unauthorized personnel, within 100 feet of the unloading, deposition, and burial areas for the asbestos-containing waste materials. A hazard warning shall be displayed on signs not less than 20 x 14 inches in size, posted so they are visible before entering an area with asbestos waste disposal operations in progress; or, alternatively, mark vehicles used to transport asbestos-containing waste materials with 21 x 14 inch signs so that the signs are displayed in such a manner and location that a person can easily read the legend. Display the following legend in the lower panel with letter sizes and styles of a visibility at least equal to those specified in this paragraph.

Legend:

DANGER
ASBESTOS DUST HAZARD
CANCER AND LUNG DISEASE HAZARD
Authorized Personnel Only

ASBESTOS WASTE DISPOSAL SITE
DO NOT CREATE DUST
BREATHING ASBESTOS IS HAZARDOUS TO YOUR HEALTH

Notation

2.5 cm (1 inch) Sans Serif, Gothic or Block

The permittee shall cover and compact asbestos wastes in accordance with the following:

- a. As soon as practicable after the placement of friable asbestos, but no later than the end of each working day, the asbestos-containing waste materials deposited at the site during the operating day shall be covered with at least 12 inches of non-ACM. Once the ACM are covered, the area may be compacted.
- b. Care shall be taken to ensure that disposed asbestos shall not be re-excavated in subsequent operations. Any accidentally exposed material shall be immediately recovered in accordance with the provisions of condition a. 8.a. above.
- c. Asbestos-containing waste materials shall be separated from the landfill final grade by no less than 24

- inches of compacted non-asbestos-containing materials and a permanent cover of vegetation, or in accordance with current requirements for closure
8. The permittee shall cover and compact asbestos wastes in accordance with the following:
 - a. As soon as practicable after the placement of friable asbestos, but no later than the end of each working day, the asbestos-containing waste materials deposited at the site during the operating day shall be covered with at least 12 inches of non-ACM. Once the ACM are covered, the area may be compacted.
 - b. Care shall be taken to ensure that disposed asbestos shall not be re-excavated in subsequent operations. Any accidentally exposed material shall be immediately recovered in accordance with the provisions of condition a. 8.a. above.
 - c. Asbestos-containing waste materials shall be separated from the landfill final grade by no less than 24 inches of compacted non-asbestos-containing materials and a permanent cover of vegetation, or in accordance with current requirements for closure, whichever is more stringent.

Emissions control equipment shall be available for wetting and containing asbestos in the event of a release or non-conforming load disposal. All equipment required to implement the Plan shall be maintained in accordance with good engineering practices to ensure that the equipment is in a ready-to-use condition and in an appropriate location for use.
 9. The permittee shall ensure that solid wastes are deposited, spread and compacted in such a manner as to minimize or prevent visible emissions of dust. All truckloads of solid waste shall be unloaded in a manner which will minimize the drop height of the solid wastes. Any dusty materials or wastes likely to become airborne shall be watered as necessary prior to or during dumping operations in order to minimize or eliminate visible emissions of fugitive dust. Watering shall be conducted in such a manner as to avoid the pooling of liquids and runoff. No dusty material shall be dumped during periods of high wind speed, unless the material has been treated to prevent fugitive dust emissions from becoming airborne.
 10. The permittee shall operate the recovery treatment system at all times when the collected gas is routed to the system.
 11. The permittee shall either burn the gas in the enclosed combustor as required above or collect and sell as fuel.
 12. The collection system shall be designed to meet the requirements of 40 CFR 60.759.
 13. The permittee shall place each well or design component as specified in the approved design plan as provided in 40 CFR 60.752(b)(2)(i). Each well shall be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of
 - a. 5 years or more if active; or
 - b. 2 years or more if closed or at final grade.
 14. The permittee shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis.
 15. There shall be no open burning in violation of OAC rule 3745-19.
 16. The permittee shall develop a written startup, shutdown and malfunction plan and follow the requirements as outlined in 40 CFR Part 63.6 (e). This plan shall be developed by January 16, 2004 and be maintained on site.
 17. The permittee shall comply with the general provisions outlined in Table 1 of 40 CFR Part 63 Subpart AAAAA.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder that measures and records the combustion temperature within the flare enclosed combustor 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 installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

 - a. All 3-hour blocks of time during which the average combustion temperature within the flare enclosed combustor, when the emissions unit was in operation, was less than 1400 degrees Fahrenheit.
 - b. A log of the downtime for the recovery treatment system when the associated emissions unit was in operation.
2. For the active gas collection system, the permittee shall install a sampling port and a thermometer, or other temperature measuring device, or an access port for temperature measurements at each wellhead and record the following information on a monthly basis:
 - a. The gauge pressure in the gas collection header at each individual well, in psi.
 - b. The nitrogen or oxygen concentration in the landfill gas, in percent.
 - c. The temperature of the landfill gas, in degrees Fahrenheit.

- If a well exceeds one of these operating parameters specified in term A.II.3 and A.II.4, except as provided under 40 CFR 60.753(b) and (c), action shall be initiated to correct the exceedances within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative time line for correcting the exceedance may be submitted to the Department of Environmental Services for approval.
3. The permittee shall either install, calibrate, maintain, and operate, according to the manufacturer's specifications, a device that records the flow to the flare enclosed combustor, treatment system, and bypass stack, and collect and record the flow at least every fifteen minutes; or

Secure the bypass line valve in the closed position with a car-seal or lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.
 4. The permittee shall maintain, for the life of the collection system, an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector.
 5. The permittee shall keep for at least 5 years up-to-date, readily accessible, on-site records of the maximum design capacity of the landfill, the current amount of solid waste in-place, and the year-to-year waste acceptance rate, and maximum expected gas generation flow rate. Off-site records may be maintained if they are retrievable within 4 hours. Either hardcopy or electronic formats are acceptable. These records, may be also required by the Ohio EPA, Division of Solid and Infectious Waste Management.
 6. The permittee shall monitor surface concentrations of methane on a quarterly basis as follows:
 - a. Monitor surface concentrations of methane, in ppm along the entire perimeter of the collection area and along a pattern spaced 30 meters apart (or a site-specific established spacing) and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover for each collection area.
 - b. The background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells.
 - c. Surface emission monitoring shall be performed in accordance with Section 4.3.1 of Method 21 of Appendix A of 40 CFR, Part 60, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions.
 - d. Any reading of 500 ppm or more above background at any location shall be recorded as a monitored exceedance and the actions specified below shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements listed in section A.II.6:5
 - i. The location of each monitored exceedance shall be marked and the location recorded.
 - ii. Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be remonitored within 10 calendar days of detecting the exceedance.
 - iii. If the remonitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedance. If the remonitoring shows a third exceedance for the same location, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding time line for installation may be submitted to the Ohio EPA for approval. No further monitoring of that location is required until the action specified has been taken.
 - iv. Any location that initially showed an exceedance but has a methane concentration less than 500 ppm methane above background at the 10-day remonitoring specified above shall be remonitored 1 month from the initial exceedance. If the 1-month remonitoring shows a concentration less than 500 ppm above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month remonitoring shows an exceedance, the actions specified above shall be taken.
 - e. The monitor used shall meet the requirements of 40 CFR 60.755(c).
 7. The permittee shall maintain records of the following information:
 - a. The waste shipment record form for each shipment of ACM.
 - b. The location, depth and area, and quantity in cubic yards of all ACM within the disposal site, on a map or diagram of the disposal area.
 8. The permittee shall require that all asbestos waste shipments received be accompanied by a waste shipment record. The waste shipment records shall include the following information:
 - a. The name of the work site or facility where the asbestos-containing waste was generated and the mailing address and telephone number of the facility owner.
 - b. The name, mailing address and telephone number of the owner or operator (waste generator) responsible for handling, packing, marking, and labeling the asbestos-containing waste material.
 - c. The name, mailing address, telephone number and site location of the active waste disposal site designated by the generator to receive the asbestos-containing waste material for disposal.
 - d. The name and address of the local, state or USEPA regional agency responsible for administering the

asbestos NESHAP program.

- e. A description of the asbestos-containing waste materials included in the waste shipment.
- f. The number and type of containers included in the waste shipment.
- g. The approximate volume of asbestos-containing waste material included in the waste shipment in cubic yards.
- h. Special handling instructions or additional information relative to the waste shipment the waste generator may specify.
- i. A certification that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.
- j. The name, address and phone number of the transporter.
- k. Signature by the transporter to acknowledge receipt of the asbestos-containing waste shipment described by the waste generator in Condition a through i.
- l. A discrepancy indication space to be completed by the transporter or waste shipment owner or operator if any improperly contained asbestos waste is observed or if there is any discrepancy in the quantity of asbestos shipped and the quantity of asbestos waste received at the asbestos waste disposal site. Significant amounts of improperly contained waste shall be reported in writing to the Ohio EPA by the following working day. The report shall include a copy of the waste shipment.
- m. The name and telephone number of the disposal site operator.
- n. Signature by the waste disposal site operator to acknowledge receipt of the asbestos-containing waste shipment described by the waste generator in conditions a through i above, except as noted in the discrepancy indication space.
- o. The date of receipt.

The waste shipment record forms shall be retained at the facility for at least two years, and shall be made available for inspection upon request.

9. The permittee shall maintain the following information for the life of the recovery treatment system as measured during the initial performance test or compliance demonstration:

- a. The maximum expected gas generation flow rate, in m³/yr as calculated based on the following:

- i. For sites with unknown year-to-year solid waste acceptance rate:

$$Q_m = 2L_o \times R \times \{(e \text{ to the power } -kc) - (e \text{ to the power } -kt)\}$$

where,

Q_m = maximum expected gas generation flow rate, cubic meters per year
 L_o = methane generation potential, cubic meters per megagram solid waste
 R = average annual acceptance rate, megagram per year
 k = methane generation rate constant, per year
 t = age of the landfill at equipment installation plus the time the owner or operator intends to use the gas mover equipment or active life of the landfill, whichever is less (If the equipment is installed after closure, t is the age of the landfill at installation), years
 c = time since closure, years (for an active landfill c = 0 and (e to the power -kc) = 1)

- ii. For sites with known year-to-year solid waste acceptance rate:

$$Q_m = \text{Summation of } 2kL_oM_i \times (e \text{ to the power } -kti \text{ for } i=1 \text{ through } i=n)$$

where,

Q_m = maximum expected gas generation flow rate, cubic meters per year
 k = methane generation rate constant, per year
 L_o = methane generation potential, cubic meters per megagram solid waste
 M_i = mass of solid waste in the ith section, in megagrams
 t_i = age of the ith section, in years

iii. If a collection and control system has been installed, actual flow data may be used to project the maximum expected gas generation flow rate instead of, or in conjunction with, the equations in paragraphs A.III.9.a.i. and ii. If the landfill is still accepting waste, the actual measured flow data will not equal the maximum expected gas generation rate, so calculations using the equations in paragraphs A.III.i. or ii or other methods shall be used to predict the maximum expected gas generation rate over the intended period of use of the gas control system equipment. (The permittee may use another method to determine the maximum gas generation flow rate, if the method has been approved by the Ohio EPA.).

- b. The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 40 CFR, Part 60.759(a)(1).

- c. The flare type (i.e., steam-assisted, air-assisted, or non-assisted).

- d. All visible emissions readings.

- e. Heat content determinations of the gas.

- f. Flow rate or bypass flow rate measurements.
 - g. Exit velocity determinations made during the performance test as specified in 40 CFR, Part 60.18.
- 10. Except as otherwise provided in this section, the permittee shall perform inspections of the landfill operation areas for visible particulate emissions in accordance with the following frequencies:
 - landfill areas:
 - all landfill areas
 - minimum inspection frequency:
 - once daily during normal operation
- 11. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures for fugitive particulate emissions. The inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary for a landfill operating area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
- 12. The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraphs (C)(1) and (C)(3) of OAC rule 3745-77-08.
- 13. The permittee shall maintain records of the following information:
 - a. The date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation.
 - b. The date of each inspection where it was determined by the permittee that it was necessary to implement the control measures.
 - c. The dates the control measures were implemented.
 - d. On a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

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IV. Reporting Requirements

- 1. Any breakdown or malfunction of the landfill gas collection and control system resulting in the emission of raw landfill gas emissions to the atmosphere shall be reported to the Hamilton County Department of Environmental Services within one hour after the occurrence, or as soon as reasonably possible, and immediate remedial measures shall be undertaken to correct the problem and prevent further emissions to the atmosphere.
- 2. In the event of a potential emergency, such as a fire within the landfill, wells affected may be temporarily shut off, which could result in a positive gauge pressure. The Hamilton County Department of Environmental Services shall be notified within one working day of any shutdowns of any wells due to an emergency.
- 3. The permittee shall submit quarterly deviation (excursion) reports that include the following information:
 - a. An identification of each month during which the gauge pressure in the gas collection header gave a positive pressure reading, and the actual gauge pressure reading for each such month.
 - b. An identification of each period during which the temperature in the enclosed combustor was less than 1400 degrees Fahrenheit for any 3-hour blocks of time, and a copy of the recorded chart for each such period.
 - c. An identification of each month during which the temperature and nitrogen or oxygen limitations specified in Section A.II.4. were exceeded.
 - d. An identification of each quarter during which the methane concentration measured at the surface of the landfill was greater than 500 ppm above the background levels.
 - e. All periods when the gas stream is diverted from the control device or recovery system through a bypass line or the indication of bypass flow or any record which indicates that the bypass line valve was not maintained in the closed position.
 - f. A listing of all periods when the collection system was not operating in excess of five days.
 - g. Each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation.
 - h. Each instance when a control measure that was to be implemented as a result of an inspection, was not implemented.

i. Any record which indicates that the temperature of the landfill gas was greater than 55 degrees Celsius or an alternative temperature approved by Ohio EPA.

j. Description and duration of all periods when the recovery treatment system was not operating for a period exceeding 1 hour and the length of time the recovery treatment system was not operating.

Should a deviation occur, the deviation report shall include details sufficient to determine compliance with the time line provisions established under 40 CFR 60.755.

j. Description and duration of all periods when the control device recovery treatment system was not operating for a period exceeding 1 hour and the length of time the control device recovery treatment system was not operating.

Should a deviation occur, the deviation report shall include details sufficient to determine compliance with the time line provisions established under 40 CFR 60.755.

4. The permittee shall submit annual reports which includes any record indicating the date of installation and the location of each well or collection system expansion added pursuant to 40 CFR, Part 60.755(a)(3), (b), and (c)(4). These reports shall be submitted by January 31 of each year. The permittee shall submit annual reports which includes any record indicating the date of installation and the location of each well or collection system expansion added pursuant to 40 CFR, Part 60.755(a)(3), (b), and (c)(4). These reports shall be submitted by January 31 of each year.
5. The permittee shall submit a closure report to the Hamilton County Department of Environmental Services within 30 days of waste acceptance cessation. The Ohio EPA may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR, Part 258.60. If a closure report has been submitted to the Ohio EPA, no additional wastes may be placed into the landfill without filing a notification of modification as described in 40 CFR, Part 60.7(a)(4).
6. The permittee shall submit an equipment removal report to the Hamilton County Department of Environmental Services 30 days prior to removal or cessation of operation of the control equipment. The equipment removal report shall contain the information specified in 40 CFR, Part 60.757(e)(1). The Ohio EPA may request additional information as may be necessary to verify that all of the conditions for removal in 40 CFR, Part 60.752(b)(2)(v) have been met.
7. The permittee shall submit the following information with the initial performance test report required pursuant to 40 CFR, Part 60.8:
 - a. A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including the locations of any areas excluded from collection and the proposed sites for the future collection system expansion.
 - b. The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based.
 - c. The documentation of the presence of asbestos or nondegradable material for each area from which collection wells have been excluded based on the presence of asbestos or nondegradable material.
 - d. The sum of the gas generation flow rate for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area.
 - e. The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill.
 - f. The provisions for the control of off-site migration.
8. The permittee shall submit written notification to the Director and to the board of health having jurisdiction, and place a copy of the notification in the operating record, as to the actual date that the unit(s) of the sanitary landfill facility ceased to accept solid waste, in accordance with paragraph (E) of rule OAC rule 3745-27-11. Written notification shall be received by the Director by no later than seven days after the date specified in the notification.
9. As soon as possible and no later than 30 days after receipt of the asbestos waste, the permittee shall send a copy of the signed waste shipment record to the waste generator.
10. The permittee shall submit quarterly reports summarizing the asbestos disposal activities. The reports shall contain the following information:
 - a. The name, address and location of the facility; the calendar period covered by the report; and any changes in the methods of storage or the disposal operations.
 - b. A list of all asbestos-containing waste consignments received including: the date received, the name of the waste generator, the name and location of the facility where the load originated, the quantity of asbestos, and any discrepancy or non-conformity discovered.

These quarterly reports shall be submitted no later than January 31, April 30, July 31 and October 31 and shall cover the previous calendar quarters.
11. Upon discovering a discrepancy between the quantity of waste designated on a waste shipment record and the quantity actually received, the permittee shall attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within 15 days after receiving the waste, immediately report in writing to the State, local, district, or USEPA regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the Hamilton County Department of Environmental Services. Describe the discrepancy and attempts to reconcile it, and submit a copy of the waste shipment record along with the report.

12. The permittee shall submit, upon closure of the facility, a copy of the records of the asbestos waste disposal locations and quantities.
13. The permittee shall notify the Hamilton County Department of Environmental Services in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and is covered. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date must be provided at least 10 working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. The following information shall be included in the notice:
 - a. Scheduled starting and completion dates.
 - b. Reason for disturbing the waste.
 - c. Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material. (If deemed necessary, the Director may require changes in the proposed emission control procedures).
 - d. Location of any temporary storage site and the final disposal site.
14. The permittee shall notify the Hamilton County Department of Environmental Services of any load of ACM which is rejected, or any non-conforming load disposed of in accordance with the "Asbestos Spill Contingency Plan." Notification shall be provided as soon as possible by a phone contact, followed in writing by the next working day. The written notification shall provide a copy of the waste shipment record ("WSR"), if available, or when waste is not shipped with a WSR, provide available information concerning vehicle identification, source of the load, a description of the load, nature of discrepancy, and the location of disposal. If possible, non-conforming loads of suspect friable material shall be detained, or the location of disposal protected from damage, until the Hamilton County Department of Environmental Services is informed and provided the opportunity to inspect.
15. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:
 - a. Each day during which an asbestos and/or non-asbestos material handling operation inspection was not performed by the required frequency.
 - b. Each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
16. All deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

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V. Testing Requirements

1. Emission Limitation:

Control efficiency of 98% by weight or reduce the outlet NMOC emission concentration to less than 20 ppm.

Applicable Compliance Method:

Emission testing using the following test methods shall be employed to demonstrate compliance with the control efficiency:

for NMOC - Methods 25, 25C or 18 of 40 CFR, Part 60, Appendix A

(Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.)
2. The nitrogen level shall be determined using Method 3C of 40 CFR, Part 60, Appendix A, unless an alternative test method is established as allowed by 40 CFR, Part 60.752(b)(2)(i).
3. The oxygen level shall be determined by an oxygen meter using Method 3A or 3C of 40 CFR, Part 60, Appendix A, unless an alternative test method is established as allowed by 40 CFR, Part 60.752(b)(2)(i), except that:
 - a. the span shall be set so that the regulatory limit is between 20% and 50% of the span;
 - b. a data recorder is not required;
 - c. only two calibration gases are required, a zero and span, and ambient air may be used as the span;
 - d. a calibration error check is not required; and
 - e. the allowable sample bias, zero drift, and calibration drift are plus or minus 10%.
4. After the installation of a collection and control system in compliance with 40 CFR, Part 60.755, the permittee shall calculate the NMOC emission rate for the purposes of determining when the system can be removed as provided in 40 CFR, Part 60.752(b)(2)(v) in accordance with the equation and procedures specified in 40 CFR, Part 60.754(b), (b)(1), and (b)(2). The permittee may use another method to determine landfill gas flow rate and NMOC concentration if the method has been approved by the Ohio EPA as provided in 40 CFR, Part 60.752(b)(2)(i)(B).
5. The flow rate of landfill gas, Qlfg, shall be determined by measuring the total landfill gas flow rate at the common header pipe that leads to the control device using a gas flow measuring device calibrated according to the provisions of section 4 of Method 2E of Appendix A of 40 CFR, Part 60.

6. The average NMOC concentration, Cnmoc, shall be determined by collecting and analyzing landfill gas sampled from the common header pipe before the gas moving or condensate removal equipment using the procedures in Method 25C or Method 18 of Appendix A of 40 CFR, Part 60. If using Method 18 of Appendix A of 40 CFR, Part 60, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). The sample location on the common header pipe shall be before any condensate removal or other gas refining units. The permittee shall divide the NMOC concentration from Method 25C of Appendix A of 40 CFR, Part 60 by 6 to convert from Cnmoc as carbon to Cnmoc as hexane.
7. The permittee may use another method to determine landfill gas flow rate and NMOC concentration if the method has been approved by the Director.
8. Emission Limitation:
20% Opacity, as a three-minute average.
Applicable Compliance Method:
Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002 and modifications listed in paragraph B(3)(a) and B(3)(b) of OAC rule 3745-17-03.
9. Emission Limitation:
20% Opacity, as a six-minute average.
Applicable Compliance Method:
If required, compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002.
10. Emission Limitation:
No visible emissions from asbestos-containing materials.
Applicable Compliance Method:
If required, compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.
11. Emission Limitation:
Emissions from the gas recovery plant (stack emissions):
6.4 TPY NMOC
595 TPY Methane
34.52 TPY VOC
42.44 TPY CO
0.86 TPY PM
0.86 TPY PM10
6.66 TPY NOx
7.11 TPY SO2
25.62 TPY HCl
3.28 TPY HF
Fugitive emissions:
448 TPY NMOC
41,687 TPY Methane
241.47 TPY VOC
17.33 TPY CO
0.48 TPY PM
0.23 TPY PM10
Applicable Compliance Method:
Compliance with the allowable emission rates for the gas recovery plant shall be determined using the emissions factors from AP-42, USEPA's Landfill Gas Emissions Model (LandGEM) and the information submitted in PTI application 14-05302 received April 8, 2002. The fugitive particulate emissions from the solid waste landfilling operations shall be determined by using the emission factors in AP-42 Section 13.2.4 dated January, 1995. Fugitive emissions from the landfill are based USEPA's Landfill Gas Emissions Model (LandGEM) and AP-42 Section 2.4 dated November 1998.

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VI. **Miscellaneous Requirements**

1. The emissions from the slope reconstruction capacity increase are limited to the following:
Pollutant Emissions (TPY)

NMOC (Fugitive) 140.8
 Methane (Fugitive) 13,099
 VOC (Fugitive) 37.3
 CO (Fugitive) 2.67

The emissions from the gas recovery plant (stack emissions) do not increase due to the gas generation from the landfill not increasing above the baseline generation rates.

2. The terms and conditions listed in this permit to install shall supercede all the air pollution control requirements contained in permit to install 14-03417 as issued on June 15, 1994 and permit to install 14-822 as issued on September 5, 1985.
3. The following terms and conditions in this permit to install will become effective upon commencement of construction of the phase that increases the capacity of the landfill above the permitted limit in PTI 05-3567 as issued on February 17, 1994:

 Part III.A.I.2.f, III.A.I.2.h, III.A.III.10, III.A.III.11, III.A.III.12, III.A.III.13, III.A.IV.3.g and h, III.A.IV.15, III.A.V.8, III.A.V.9, and B.III.1.

 Commencement of construction is defined as placing of additional soil liner in the aforementioned phase.
4. Nothing in term III.A.VI.3 shall prohibit the permittee from complying with the requirements of OAC rule 3745-31-06.

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Facility ID: 1431092049 Emissions Unit ID: P002 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
|---|--------------------------------------|--|

| | | |
|---|--|--|
| P902 - Solid waste disposal and landfill gas generation - Slope reconstruction modification | | |
|---|--|--|

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. The permit to install for this emissions unit (P902) was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the ISCST3 (00101) model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: hydrogen chloride

TLV (ug/m3): 7458

Maximum Hourly Emission Rate (lbs/hr): 0.74

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1.63

MAGLC (ug/m3): 178

Pollutant: hydrogen sulfide

TLV (ug/m3): 13,940

Maximum Hourly Emission Rate (lbs/hr): 0.64

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 43.93

MAGLC (ug/m3): 332

Physical changes to or in the method of operation of the emissions unit after it's installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in the "Air Toxic Policy" include the following:

- a. Changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. Changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. Physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
2. If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the Air Toxic Policy:"

- a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. Documentation of it's evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. When the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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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: 1431092049 Emissions Unit ID: P003 Issuance type: Title V Draft 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> |
|---|--|---|
| deodorizing system | OAC rule 3745-31-05(A)(3) (PTI 14-4447) | 157.38 lbs of organic compounds (OC)/hr* 10.98 tons per year (TPY) of OC, based on a rolling, 12-month summation * The lbs of OC/hr emission limit is based on the emissions unit's potential to emit. Therefore, no hourly record keeping is required to ensure compliance with this limitation. |
| | OAC rule 3745-21-07(G) | See Section A.I.2 below. none (See Section A.II.2.) |

2. Additional Terms and Conditions

- a. The OC content of the deodorizing agents used in this emissions unit shall not exceed 15% by weight.

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II. Operational Restrictions

1. The maximum annual usage of deodorizing agents shall not exceed 18,000 gallons per year, based upon a rolling, 12-month summation of the monthly usage rates.
2. The use of any photochemically reactive material in this emissions unit, as defined in OAC rule 3745-21-01(C) (5) is prohibited.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record each month the following information for this emissions unit:
 - a. The name and identification number of each deodorizing agent used and whether or not it is a photochemically reactive material.
 - b. The total amount of each deodorizing agent used, in gallons.
 - c. The OC content, percent by weight, of each deodorizing agent.
 - d. The OC emissions for all the deodorizing agents employed (the summation of (b x density of each deodorizing agent) for all deodorizing agents), in pounds.
 - e. The total usage for all deodorizing agents, in gallons (the summation of b for all deodorizing agents).
 - f. The rolling, 12-month summation of the deodorizing agents, in gallons.
 - g. The rolling, 12-month summation of the monthly OC emission rates, in tons.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month OC emission limitation of 10.98 tons;
 - b. all exceedances of the rolling, 12-month deodorizing agent gallon usage restriction of 18,000; and

c. all exceedances of the OC content of 15% by weight.

All quarterly reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

2. The permittee shall submit annual reports identifying any use of photochemically reactive material deodorizing agent. This report shall be submitted by January 31 of each year.

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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 method:
 - a. Emission Limitation:

10.98 TPY of OC

Applicable Compliance Method:

Compliance shall be determined based on the record keeping requirements specified in Section A.III.1 above.
 - b. Emission Limitation:

157.38 lbs of OC/hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum use rate per hour (129 gallons per hour) by the maximum density of all the deodorizing agents (8.133 pounds per gallon), and the resultant multiplied by the amount of OC in the deodorant spray (0.15).
2. OC Content Limitation:

15% by weight of OC/gallon of deodorizing agent

Applicable Compliance Method:

Compliance may be determined based upon the record keeping requirements specified in Section A.III.1 of this permit. USEPA Method 24 may be used to determine the VOC content for the coatings. If, pursuant to section 4.3 of Method 24, 40 CFR, Part 60, Appendix A, the permittee determines that Method 24 cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1431092049 Emissions Unit ID: P003 Issuance type: Title V Draft 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: 1431092049 Emissions Unit ID: P006 Issuance type: Title V Draft 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> |
|---|--------------------------------------|---|
| 25,000-gallon wastewater aeration tank | OAC rule 3745-31-05 (PTI 14-4447) | 9.0 lbs of organic compounds (OC)/hr * 39.42 tons per year (TPY) of OC |
| | OAC rule 3745-21-07(G) | *The lbs of OC/hr emission limitation is based on the emissions unit's potential to emit. Therefore, no hourly record keeping and/or reporting is required to ensure compliance with this limitation. none |

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

1. The OC content of the leachate processed shall not exceed 5,000 micrograms per liter (ug/l).

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

1. The permittee shall maintain records of the laboratory analysis reports which determine the VOC content of the leachate processed. At a minimum, the permittee shall sample the leachate on a quarterly basis.

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IV. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the OC concentration limitation of 5,000 ug/l. All quarterly reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I. shall be determined in accordance with the following methods:

Emission Limitations:

9.0 lbs of OC/hr, 39.42 TPY of OC

Applicable Compliance Method:

Compliance with the OC concentration ensures compliance with the OC emission limitations.

If required, stack testing shall be conducted using Method 25 of 40 CFR, Part 60, Subpart A.

Compliance with the annual OC emission limitation shall be ensured as long as compliance with the hourly OC emission limitation is maintained.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1431092049 Emissions Unit ID: P006 Issuance type: Title V Draft 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: 1431092049 Emissions Unit ID: P007 Issuance type: Title V Draft 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> |
|---|--|--|
| 1.12 mmBtu/hr diesel engine | OAC rule 3745-31-05(A)(3) (PTI 14-4771) | 0.35 lb of particulate emissions(PE)/hr 0.35 lb of particulate matter less than 10 micron in size (PM-10)/hr 0.42 tons per year (TPY) of PE 0.42 TPY of PM-10 |

0.32 lb of sulfur dioxide (SO₂)/hr
0.40 TPY of SO₂

4.94 lbs of nitrogen oxides (NO_x)/hr
6.04 TPY of NO_x

1.06 lbs of carbon monoxide (CO)/hr
1.30 TPY of CO

0.40 lb of volatile organic compounds (VOC)/hr
0.49 TPY of VOC

*The hourly emission limitations outlined above are based upon the emission unit's potential to emit. Therefore, no hourly recordkeeping or reporting is required to demonstrate compliance with these limits.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(1)(B)(5).

See section A.II below.

OAC rule 3745-17-07(A)(1) Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.

OAC rule 3745-17-11(B)(5) PE shall not exceed 0.310 lb/mmBtu of actual heat input.

OAC rule 3745-18-06(A) Exempt, pursuant to OAC rule 3745-18-06(B).

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

1. The maximum annual fuel oil usage for this emissions unit shall not exceed 20,000 gallons per year.
2. The maximum sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.5% by weight.

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

1. The permittee shall maintain the following information on a monthly basis:
 - a. The total amount of diesel fuel used, in gallons; and
 - b. The year-to-date total for the amount diesel fuel used, recorded in gallons (the summation of (a) for each month of operation during the calendar year).
2. The permittee shall maintain hours of operation of this emissions unit on a monthly basis.
3. The permittee shall conducted, have conducted or obtain oil suppliers analysis of percent sulfur content in diesel fuel, in % by weight.

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IV. **Reporting Requirements**

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record which shows a deviation of the allowable diesel fuel usage limitation specified in Section A.II.1 based upon the information maintained in Section A.III.1 above. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.
2. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record which shows a deviation of the percent sulfur in oil limitation specified in Section A.II.2 based upon the information maintained in Section A.III.3 above. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I. shall be determined in accordance with the following methods:

Emission Limitation:

20% opacity, as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002 and modifications listed in paragraph B(3)(a) and B(3)(b) of OAC rule 3745-17-03.
2. Emission Limitation:

0.310 lbs of PE/mmBtu actual heat input

Applicable Compliance Method:

Compliance may be determined by using the PE factor of 0.31 lb of PE/mmBtu from USEPA reference document AP-42, Table 3.3-1, (revised 01/96) Fifth Edition.
3. Emission Limitations:

0.35 lb of PE/hr, 0.35 lb of PM-10/hr
0.42 TPY of PE, 0.42 TPY of PM-10

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.31 lb of PE/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation stated above, pursuant to OAC rule 3745-17-03(B)(9).
4. Emission Limitations:

0.32 lb of SO₂/hr
0.40 TPY of SO₂

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.29 lb of SO₂/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 6 of 40 CFR, Part 60, Appendix A.
5. Emission Limitations:

4.94 lbs of NO_x/hr
6.04 TPY of NO_x

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 4.41 lbs of NO_x/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 7 of 40 CFR, Part 60, Appendix A.
6. Emission Limitations:

1.06 lbs of CO/hr
1.30 TPY of CO

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.95 lb of CO/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1., Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 10 of 40 CFR, Part 60, Appendix A.

7. Emission Limitations:

0.40 lb of VOC/hr
0.49 TPY of VOC

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.35 lb of VOC/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 25 of 40 CFR, Part 60, Appendix A.

8. Compliance with the diesel fuel use limitation of 20,000 gallon per year may be determined based on the record keeping requirements specified in Section A.III.1 above.

9. Compliance with the diesel fuel sulfur content limitation of 0.5% by weight may be determined based on the record keeping requirements specified in Section A.III.3 above.

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VI. **Miscellaneous Requirements**

1. Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. The portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. The portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. The applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- d. In the Hamilton County Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the OAC rule 3745-15-07.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

- e. The portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- f. The portable emissions unit is equipped with best available technology;
- g. The portable emission unit owner has identified the proposed site to the Ohio EPA;
- h. The Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- i. A public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
- j. The owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- k. The portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to Section A.VI.1. above, shall be valid for no longer than three years and are subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or

operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

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Facility ID: 1431092049 Emissions Unit ID: P007 Issuance type: Title V Draft 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: 1431092049 Emissions Unit ID: P008 Issuance type: Title V Draft 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> |
|---|--|--|
| 1.12 mmBtu/hr diesel engine | OAC rule 3745-31-05(A)(3) (PTI 14-4771) | 0.35 lb of particulate emissions(PE)/hr 0.35 lb of particulate matter less than 10 micron in size (PM-10)/hr 0.42 tons per year (TPY) of PE 0.42 TPY of PM-10 0.32 lb of sulfur dioxide (SO2)/hr 0.40 TPY of SO2 4.94 lbs of nitrogen oxides (NOx)/hr 6.04 TPY of NOx 1.06 lbs of carbon monoxide (CO)/hr 1.30 TPY of CO 0.40 lb of volatile organic compounds (VOC)/hr 0.49 TPY of VOC *The hourly emission limitations outlined above are based upon the emission unit's potential to emit. Therefore, no hourly recordkeeping or reporting is required to demonstrate compliance with these limits. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(11)(B)(5). See section A.II below. |
| | OAC rule 3745-17-07(A)(1) | Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule. |
| | OAC rule 3745-17-11(B)(5) | PE shall not exceed 0.310 lb/mmBtu of actual heat input. |
| | OAC rule 3745-18-06(A) | Exempt, pursuant to OAC rule 3745-18-06(B). |

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

1. The maximum annual fuel oil usage for this emissions unit shall not exceed 20,000 gallons per year.
2. The maximum sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.5% by weight.

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

1. The permittee shall maintain the following information on a monthly basis:
 - a. The total amount of diesel fuel used, in gallons; and
 - b. The year-to-date total for the amount diesel fuel used, recorded in gallons (the summation of the value recorded in line a. for each month of operation during the calendar year).
2. The permittee shall maintain hours of operation of this emissions unit on a monthly basis.
3. The permittee shall conducted, have conducted or obtain oil suppliers analysis of percent sulfur content in diesel fuel, in % by weight.

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IV. **Reporting Requirements**

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record which shows a deviation of the allowable diesel fuel usage limitation specified in Section A.II.1 based upon the information maintained in Section A.III.1 above. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.
2. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record which shows a deviation of the percent sulfur in oil limitation specified in Section A.II.2 based upon the information maintained in Section A.III.3 above. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I. shall be determined in accordance with the following methods:

Emission Limitation:

20% opacity, as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002 and modifications listed in paragraph B(3)(a) and B(3)(b) of OAC rule 3745-17-03.
2. Emission Limitation:

0.310 lbs of PE/mmBtu actual heat input

Applicable Compliance Method:

Compliance may be determined by using the PE factor of 0.31 lb of PE/mmBtu from USEPA reference document AP-42, Table 3.3-1, (revised 01/96) Fifth Edition.
3. Emission Limitations:

0.35 lb of PE/hr, 0.35 lb of PM-10/hr
0.42 TPY of PE, 0.42 TPY of PM-10

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.31 lb of PE/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation above pursuant to OAC rule 3745-17-03(B)(9).
4. Emission Limitations:

0.32 lb of SO₂/hr
0.40 TPY of SO₂

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.29 lb of SO₂/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 6 of 40 CFR, Part 60, Appendix A.

5. Emission Limitations:

4.94 lbs of NO_x/hr
6.04 TPY of NO_x

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 4.41 lbs of NO_x/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 7 of 40 CFR, Part 60, Appendix A.

6. Emission Limitations:

1.06 lbs of CO/hr
1.30 TPY of CO

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.95 lb of CO/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1., Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 10 of 40 CFR, Part 60, Appendix A.

7. Emission Limitations:

0.40 lb of VOC/hr
0.49 TPY of VOC

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 1.12 mBtu/hr by the emission factor of 0.35 lb of VOC/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 25 of 40 CFR, Part 60, Appendix A.

8. Compliance with the diesel fuel use limitation of 20,000 gallon per year may be determined based on the record keeping requirements specified in Section A.III.1 above.

9. Compliance with the diesel fuel sulfur content limitation of 0.5% by weight may be determined based on the record keeping requirements specified in Section A.III.3 above.

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VI. **Miscellaneous Requirements**

1. Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

a. The portable emissions unit is equipped with the best available control technology for such portable

emissions unit;

- b. The portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
 - c. The applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
 - d. In the Hamilton County Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the OAC rule 3745-15-07.
- In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:
- e. The portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
 - f. The portable emissions unit is equipped with best available technology;
 - g. The portable emission unit owner has identified the proposed site to the Ohio EPA;
 - h. The Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - i. A public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - j. The owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - k. The portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to Section A.VI.1. above, shall be valid for no longer than three years and are subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

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Facility ID: 1431092049 Emissions Unit ID: P008 Issuance type: Title V Draft 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: 1431092049 Emissions Unit ID: P009 Issuance type: Title V Draft 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> |
|---|--|--|
| 1.12 mmBtu/hr diesel engine | OAC rule 3745-31-05(A)(3) (PTI 14-4771) | 0.35 lb of particulate emissions(PE)/hr 0.35 lb of particulate matter less than 10 micron in size (PM-10)/hr 0.42 tons per year (TPY) of PE 0.42 TPY of PM-10 |
| | | 0.32 lb of sulfur dioxide (SO2)/hr 0.40 TPY of SO2 |
| | | 4.94 lbs of nitrogen oxides (NOx)/hr 6.04 TPY of NOx |
| | | 1.06 lbs of carbon monoxide (CO)/hr 1.30 TPY of CO |

0.40 lb of volatile organic compounds (VOC)/hr
0.49 TPY of VOC

*The hourly emission limitations outlined above are based upon the emission unit's potential to emit. Therefore, no hourly recordkeeping or reporting is required to demonstrate compliance with these limits.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(11)(B)(5).

See section A.II below.

OAC rule 3745-17-07(A)(1) Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.

OAC rule 3745-17-11(B)(5) PE shall not exceed 0.310 lb/mmBtu of actual heat input.

OAC rule 3745-18-06(A) Exempt, pursuant to OAC rule 3745-18-06(B).

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

1. The maximum annual fuel oil usage for this emissions unit shall not exceed 20,000 gallons per year.
2. The maximum sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.5% by weight.

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

1. The permittee shall maintain the following information on a monthly basis:
 - a. The total amount of diesel fuel used, in gallons; and
 - b. The year-to-date total for the amount diesel fuel used, recorded in gallons (the summation of (a) for each month of operation during the calendar year).
2. The permittee shall maintain hours of operation of this emissions unit on a monthly basis.
3. The permittee shall conducted, have conducted or obtain oil suppliers analysis of percent sulfur content in diesel fuel, in % by weight.

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IV. **Reporting Requirements**

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record which shows a deviation of the allowable diesel fuel usage limitation specified in Section A.II.1 based upon the information maintained in Section A.III.1 above. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.
2. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record which shows a deviation of the percent sulfur in oil limitation specified in Section A.II.2 based upon the information maintained in Section A.III.3 above. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I. shall be determined in accordance with the following methods:
 - Emission Limitation:
 - 20% opacity, as a 6-minute average
 - Applicable Compliance Method:
 - Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test

Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002 and modifications listed in paragraph B(3)(a) and B(3)(b) of OAC rule 3745-17-03.

2. Emission Limitation:

0.310 lbs of PE/mmBtu actual heat input

Applicable Compliance Method:

Compliance may be determined by using the PE factor of 0.31 lb of PE/MMBtu from USEPA reference document AP-42, Table 3.3-1, (revised 01/96) Fifth Edition.

3. Emission Limitations:

0.35 lb of PE/hr
0.35 lb of PM-10/hr
0.42 TPY of PE
0.42 TPY of PM-10

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.31 lb of PE/PM-10/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation stated above, pursuant to OAC rule 3745-17-03(B)(9).

4. Emission Limitations:

0.32 lb of SO₂/hr
0.40 TPY of SO₂

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.29 lb of SO₂/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 6 of 40 CFR, Part 60, Appendix A.

5. Emission Limitations:

4.94 lbs of NO_x/hr
6.04 TPY of NO_x

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 4.41 lbs of NO_x/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 7 of 40 CFR, Part 60, Appendix A.

6. Emission Limitations:

1.06 lbs of CO/hr
1.30 TPY of CO

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.95 lb of CO/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1., Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 10 of 40 CFR, Part 60, Appendix A.

7. Emission Limitations:

0.40 lb of VOC/hr
0.49 TPY of VOC

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.35 lb of VOC/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 25 of 40 CFR, Part 60, Appendix A.

8. Compliance with the diesel fuel use limitation of 20,000 gallon per year may be determined based on the record keeping requirements specified in Section A.III.1 above.
9. Compliance with the diesel fuel sulfur content limitation of 0.5% by weight may be determined based on the record keeping requirements specified in Section A.III.3 above.

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VI. **Miscellaneous Requirements**

1. Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. The portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - b. The portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
 - c. The applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
 - d. In the Hamilton County Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.
- In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:
- e. The portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
 - f. The portable emissions unit is equipped with best available technology;
 - g. The portable emission unit owner has identified the proposed site to the Ohio EPA;
 - h. The Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - i. A public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - j. The owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - k. The portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to Section A.VI.1. above, shall be valid for no longer than three years and are subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above

criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

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Facility ID: 1431092049 Emissions Unit ID: P009 Issuance type: Title V Draft 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: 1431092049 Emissions Unit ID: P010 Issuance type: Title V Draft 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> |
|---|--------------------------------------|---|
| P010 - 440 HP No. 2 diesel engine for 150 tph mobile soil crusher | OAC rule 3745-31-05 (PTI 06-5712) | 0.96 lb of particulate emissions (PE)/PM10/hr 0.96 lb of particulate matter with a diameter of 10 microns or less in diameter (PM10 emissions)/hr 1.44 tons per year (TPY) of PE 1.44 TPY of PM10 emissions 0.9 lb of sulfur dioxide (SO2) emissions/hr 1.35 TPY of SO2 emissions 13.67 lbs of nitrogen oxides (NOx)/hr 20.54 TPY of NOx 2.95 lbs of carbon monoxide (CO)/hr 4.43 TPY of CO 1.12 lbs of volatile organic compounds (VOC)/hr 1.68 TPY of VOC * The hourly emission limitations outlined above are based upon the emission unit's potential to emit. Therefore, no hourly recordkeeping or reporting is required to demonstrate compliance with these limits. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(11)(B)(5). See Section A.II below. Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule. PE shall not exceed 0.310 lb/mmBtu of actual heat input. Exempt, pursuant to OAC rule 3745-18-06(B). |
| | OAC rule 3745-17-07(A)(1) | |
| | OAC rule 3745-17-11(B)(5) | |
| | OAC rule 3745-18-06(A) | |

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

1. The maximum annual fuel oil usage for this emissions unit shall not exceed 68,000 gallons per year.
2. The maximum sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.5%, by weight.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain the following information on a monthly basis:
 - a. The total amount of diesel fuel used, in gallons; and

- b. The year-to-date total for the amount diesel fuel used, recorded in gallons (the summation of a. for each month of operation during the calendar year).
2. The permittee shall conducted, have conducted or obtain oil suppliers analysis of percent sulfur content in diesel fuel, in % by weight.

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IV. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record which shows a deviation of the allowable diesel fuel usage limitation specified in Section A.II.1 based upon the information maintained in Section A.III.1 above. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.
2. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record which shows a deviation of the percent sulfur in oil limitation specified in Section A.II.2 based upon the information maintained in Section A.III.3 above. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.

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V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. shall be determined in accordance with the following methods:

Emission Limitation:

20% opacity, as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002 and modifications listed in paragraph B(3)(a) and B(3)(b) of OAC rule 3745-17-03.
2. Emission Limitation:

0.310 lbs of PE/mmBtu actual heat input

Applicable Compliance Method:

Compliance may be determined by using the PE factor of 0.31 lb of PE/mmBtu from USEPA reference document AP-42, Table 3.3-1, (revised 01/96) Fifth Edition.
3. Emission Limitations:

0.96 lb of PE/hr
0.96 lb of PM-10/hr
1.44 TPY of PE
1.44 TPY of PM-10

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 3.08 mmBtu/hr by the emission factor of 0.31 lb of PE/PM-10/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation above pursuant to OAC rule 3745-17-03(B)(9).
4. Emission Limitations:

0.90 lb of SO₂/hr
1.35 TPY of SO₂

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 3.08 mmBtu/hr by the emission factor of 0.29 lb of SO₂/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies

specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 6 of 40 CFR, Part 60, Appendix A.

5. Emission Limitations:

4.41 lbs of NOx/hr
20.54 TPY of NOx

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 3.08 mmBtu/hr by the emission factor of 4.41 lbs of NOx/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 7 of 40 CFR, Part 60, Appendix A.

6. Emission Limitations:

2.95 lbs of CO/hr
4.43 TPY of CO

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 3.08 mmBtu/hr by the emission factor of 0.95 lb of CO/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 10 of 40 CFR, Part 60, Appendix A.

7. Emission Limitations:

0.40 lb of VOC/hr
0.49 TPY of VOC

Applicable compliance method:

Compliance may be determined by multiplying the total heat input of 3.08 mmBtu/hr by the emission factor of 0.35 lb of VOC/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1. Table 3.3-2 (revised 1/95).

Compliance with the annual emission limitation shall be assumed as long as compliance with the diesel fuel oil usage restriction specified in Section A.II.1 is maintained (should the annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in Section A.III.1.).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 25 of 40 CFR, Part 60, Appendix A.

8. Compliance with the diesel fuel use limitation of 68,000 gallon per year may be determined based on the record keeping requirements specified in Section A.III.1 above.

9. Compliance with the diesel fuel sulfur content limitation of 0.5% by weight may be determined based on the record keeping requirements specified in Section A.III.2 above.

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VI. **Miscellaneous Requirements**

1. Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

a. The portable emissions unit is equipped with the best available control technology for such portable emissions unit;

b. The portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);

c. The applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the

new site within a minimum of thirty days prior to the scheduled relocation; and

d. In the Hamilton County Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the OAC rule 3745-15-07.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

- e. The portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- f. The portable emissions unit is equipped with best available technology;
- g. The portable emission unit owner has identified the proposed site to the Ohio EPA;
- h. The Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- i. A public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
- j. The owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- k. The portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to Section A.VI.1. above, shall be valid for no longer than three years and are subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

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Facility ID: 1431092049 Emissions Unit ID: P010 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
| 440 HP No. 2 diesel engine for 150 tph mobile soil crusher | | |

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: 1431092049 Emissions Unit ID: P011 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
| P011 - 3.5 MMBtu/hr portable diesel engine | OAC rule 3745-31-05(A)(3) | 1.09 lb PM/hr, 1.57 ton PM/yr; 1.09 lb PM-10/hr, 1.57 ton PM-10/yr; 1.02 lb SO2/hr, 1.47 ton SO2/yr; 15.44 lbs NOx/hr, 22.41 tons NOx/yr; 3.33 lbs CO/hr, 4.83 tons CO/yr; 1.23 lb VOC/hr, 1.78 ton VOC/yr. |
| | OAC rule 3745-17-07(A)(1) | The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and OAC rule 3745-17-11(B)(5). Visible particulate emissions from any stack shall not exceed twenty percent (20%) opacity, as a six minute average, except as specified by rule. |
| | OAC rule 3745-17-11(B)(5) | Particulate emissions shall not exceed 0.310 lb/MMBtu of actual heat input. |
| | OAC rule 3745-18-06(B) | The emissions unit is exempt from the requirements of OAC rule 3745-18-06. |

2. Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of #2 fuel oil, fuel oil

usage limitation and compliance with specified emission limits.

- b. The hourly emission limitations outlined are based upon the emissions unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limits.

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II. Operational Restrictions

1. The permittee shall burn only number two fuel oil in this emissions unit.
2. The maximum annual fuel oil usage for this emissions unit shall not exceed 81,000 gallons.

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III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall maintain monthly records of the total quantity of fuel oil combusted in this emissions unit.

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit annual reports that identify any exceedances of the annual fuel oil usage limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

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V. Testing Requirements

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

Emission Limitation:

20% opacity from stack

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002 and modifications listed in paragraph B(3)(a) and B(3)(b) of OAC rule 3745-17-03.

2. Emission Limitation:

Emissions limits specified in Section A.I.1

Applicable Compliance Method:

Compliance shall be determined by using the emission factors from USEPA reference document AP-42, Table 3.3-1, (October, 1996). The sulfur emissions are based on using a sulfur content of 0.5%.

Emission Limitation:

Emissions limits specified in Section A.I.1

Applicable Compliance Method:

Compliance shall be determined by using the emission factors from USEPA reference document AP-42, Table 3.3-1, (October, 1996). The sulfur emissions are based on using a sulfur content of 0.5%.

3. Compliance with the fuel oil usage limitations in term A.II.1 shall be demonstrated by the recordkeeping in term A.III.2.
Compliance with the fuel oil usage limitation in term A.II.2 shall be demonstrated by the recordkeeping in term A.III.2.

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VI. Miscellaneous Requirements

1. Notice to Relocate a Portable or Mobile Source

Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. The portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. The portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. The applicant has provided proper notice of intent to relocate the portable emissions unit to the Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- d. In the Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

- e. The portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- f. The portable emissions unit is equipped with best available technology;
- g. The portable emission unit owner has identified the proposed site to the Ohio EPA;
- h. The Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- i. A public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
- j. The owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- k. The portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to A.VI.1. above, shall be valid for no longer than three years and are subject to renewal.

In order for the Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

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Facility ID: 1431092049 Emissions Unit ID: P011 Issuance type: Title V Draft 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. | P011 - 3.5 MMBtu/hr portable diesel engine | | |
| | 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: 1431092049 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 1431092049 Emissions Unit ID: P012 Issuance type: Title V Draft 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> |
|--|--------------------------------------|--|
| P012 - 3.8 MMBtu/Hr (536 HP) Diesel IC Engine for Portable Tire Shredder | OAC rule 3745-31-05(A)(3) | 1.16 lbs PM/hr, 1.69 tons PM/yr; 1.16 lbs PM-10/hr, 1.69 tons PM-10/yr; 1.09 lbs SO2/hr, 1.58 tons SO2/yr; 16.55 lbs NOx/hr, 23.99 tons NOx/yr; 3.56 lbs CO/hr, 5.17 tons CO/yr; 1.35 lbs VOC/hr, 1.96 tons VOC/yr. |

The requirements of this rule also include compliance

| | |
|---------------------------|---|
| OAC rule 3745-17-07(A)(1) | with the requirements of OAC rule 3745-17-07(A)(1) and OAC rule 3745-17-11(B)(5). |
| OAC rule 3745-17-11(B)(5) | Visible particulate emissions from any stack shall not exceed twenty percent (20%) opacity, as a six minute average, except as specified by rule. |
| OAC rule 3745-18-06(B) | Particulate emissions shall not exceed 0.310 lb/MMBtu of actual heat input. Exempt |

2. Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of #2 fuel oil, the fuel oil usage limitation and compliance with specified emission limits.
- b. The hourly emission limitations outlined are based upon the emissions unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limits.

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II. Operational Restrictions

- 1. The permittee shall burn only number two fuel oil in this emissions unit.
- 2. The maximum annual fuel oil usage for this emissions unit shall not exceed 79,400 gallons.

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III. Monitoring and/or Record Keeping Requirements

- 1. For each day during which the permittee burns a fuel other than number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall maintain monthly records of the total quantity of fuel oil combusted in this emissions unit.

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IV. Reporting Requirements

- 1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
- 2. The permittee shall submit annual reports that identify any exceedances of the annual fuel oil usage limitation, as well as the corrective actions that were taken to achieve compliance. If no exceedances occurred during the reporting period then a report is required stating so. These reports shall be submitted by January 31 of each year.

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V. Testing Requirements

- 1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
 - Emission Limitation:
 - 20% opacity from stack
 - Applicable Compliance Method:
 - Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002 and modifications listed in paragraph B(3)(a) and B(3)(b) of OAC rule 3745-17-03.
- 2. Emission Limitation:
 - Emissions limits specified in Section A.I.1
 - Applicable Compliance Method:
 - Compliance shall be determined by using the emission factors from USEPA reference document AP-42, Table 3.3-1, (October, 1996). The sulfur emissions are based on using a sulfur content of 0.5%.
- 3. Compliance with the fuel oil usage limitation in term A.II.2 shall be demonstrated by the recordkeeping in term A.III.2.

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VI. Miscellaneous Requirements

1. Notice to Relocate a Portable or Mobile Source

Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. The portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. The portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. The applicant has provided proper notice of intent to relocate the portable emissions unit to the Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- d. In the Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

- e. The portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- f. The portable emissions unit is equipped with best available technology;
- g. The portable emission unit owner has identified the proposed site to the Ohio EPA;
- h. The Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- i. A public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
- 2. j. The owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- k. The portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to A.VI.1. above, shall be valid for no longer than three years and are subject to renewal.

In order for the Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

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Facility ID: 1431092049 Emissions Unit ID: P012 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
|---|--------------------------------------|--|

| | | |
|--|--|--|
| P012 - 3.8 mmBtu/Hr Diesel IC Engine for Portable Tire Shredder. | | |
|--|--|--|

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: 1431092049 Emissions Unit ID: Z001 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
|---|--------------------------------------|--|

| | | |
|--|------------------------|--------|
| P007 - 25,000-gallon wastewater aeration tank #1 | OAC rule 3745-21-07(D) | exempt |
|--|------------------------|--------|

See Section A.I.2.a below.

2. **Additional Terms and Conditions**

- a. This unit is exempt due to VOC content of the stored liquid to be less than 20% of its total volume as defined in OAC rule 3745-21-01(C)(5).

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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: 1431092049 Emissions Unit ID: Z001 Issuance type: Title V Draft 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> |
|---|--------------------------------------|--|
|---|--------------------------------------|--|

| | | |
|---|--|--|
| 25,000 Gallon Wastewater Aeration Tank #1 | | |
|---|--|--|

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