



State of Ohio Environmental Protection Agency

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

CERTIFIED MAIL

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 13-04621

Fac ID: 1318958479

DATE: 9/12/2006

Independence Recycling, Inc Crusher Plt
Scott Schroeder
5531 Canal Road
Valley View, OH 44125

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

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

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

CLAA



**Permit To Install
Terms and Conditions**

**Issue Date: 9/12/2006
Effective Date: 9/12/2006**

FINAL PERMIT TO INSTALL 13-04621

Application Number: 13-04621
Facility ID: 1318958479
Permit Fee: **\$1250**
Name of Facility: Independence Recycling, Inc Crusher Plt
Person to Contact: Scott Schroeder
Address: 5531 Canal Road
Valley View, OH 44125

Location of proposed air contaminant source(s) [emissions unit(s)]:
**2615 West 3rd Street
Cleveland, Ohio**

Description of proposed emissions unit(s):
Portable Rock Crushing Plant -- F001.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Permit-To-Install General Terms and Conditions

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to

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the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - iv. If this permit is for an emissions unit located at a Title V facility, then each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

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4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

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7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or

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required under this permit.

- iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

10. Permit-To-Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this permit is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

11. Best Available Technology

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

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12. Air Pollution Nuisance

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

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13. Permit-To-Install

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

B. State Only Enforceable Permit-To-Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

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

3. Permit Transfers

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

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4. Authorization To Install or Modify

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

5. Construction of New Sources(s)

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

6. Public Disclosure

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

7. Applicability

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

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8. Construction Compliance Certification

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

9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly (i.e., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

C. Permit-To-Install Summary of Allowable Emissions

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

<u>Pollutant</u>	<u>Tons Per Year</u>
PM	23.29
PM ₁₀	9.32
NOx	36.76
CO	16.44
SO ₂	9.87
OC	1.74

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Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

None

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

None

Emissions Unit ID: F001

OAC rule 3745-17-08 (B)	Applicable Emissions <u>Limitations/Control Measures</u>	9.65 lbs/hour of SO ₂ emissions; and
OAC rule 3745-31-05(A)(3)	<p>10.48 lbs PM/hour</p> <p>4.10 lbs PM₁₀/hour</p> <p>Visible emissions of fugitive dust shall not exceed ten percent opacity, as a six-minute average.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.a)</p> <p>The visible particulate emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).</p> <p>The emission limitation specified by this rule is equivalent to or less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).</p>	<p>1.70 lb/hr of OC emissions.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(b) and 3745-17-07(A).</p> <p>Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.</p> <p>0.062 lb/mm Btu of particulate emissions of actual heat input</p> <p>20.95 tons/year* PM emissions (crushing);</p> <p>8.21 tons/year* PM₁₀ emissions (crushing);</p> <p>2.34 tons/year* particulate emissions (generator);</p> <p>1.11 tons/year* PM₁₀ emissions (generator);</p> <p>36.76 tons/year* NO_x emissions;</p> <p>16.44 tons/year* CO emissions;</p> <p>9.87 tons/year* SO₂ emissions; and</p> <p>1.74 tons/year* OC emissions.</p>
OAC rule 3745-17-07(A)	<p>The control measures specified by this rule are equivalent to the control measures established pursuant to OAC rule 3745-31-05(A)(3).</p>	<p>* per rolling, 12-month period</p> <p>See A.II.2 below.</p>
OAC rule 3745-17-11(B)(5)(b)	<p>1.17 lb/hour of particulate emissions;</p> <p>1.08 lb/hour of PM₁₀ emissions;</p> <p>35.97 lbs/hour of NO_x emissions;</p> <p>16.09 lbs/hour of CO emissions;</p>	

2. Additional Terms and Conditions

- 2.a** The permittee shall employ best available control measures for the crushing operation for the purpose of ensuring compliance with the applicable requirements. In accordance with the permittee's permit application, the permittee has committed to employing water spray bars at the hopper charging point, after crushing operations, and at the end of each conveyor belt to ensure compliance. The permittee shall also minimize the free fall distance of the processed material. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.b** For each phase of the crushing operation that is not adequately enclosed, the 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 applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the crusher until further observation confirms that use of the control measure(s) is unnecessary.
- 2.c** The portable crushing plant that is covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:
- Front end load to hopper
 - 500 ton per hour 2250 Jaw Crusher
 - 500 ton per hour 57S Cone Crusher
 - 500 ton per hour 52FC Cone Crusher
 - 4 Screening plants
 - Conveyor belts
- 2.d** Physically attach a permanent label to this portable crushing plant and identify it as facility number 13 18 95 8479.

II. Operational Restrictions

1. The permittee shall use only diesel fuel with a sulfur content less than 0.5% by weight in the engine and generator.
2. The maximum annual fuel consumption for this emissions unit shall not exceed 286,542 gallons of diesel fuel, based upon a rolling, 12 month summation of the diesel fuel consumption.

To ensure enforceability during the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, the permittee shall not exceed the fuel consumption levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Fuel Consumption</u>
1	23,878
1-2	47,757
1-3	71,635
1-4	95,514
1-5	119,392
1-6	143,271
1-7	167,149
1-8	191,028
1-9	214,906
1-10	238,785
1-11	262,663
1-12	286,542

After the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, compliance with the annual fuel consumption limitation shall be based upon a rolling, 12 month summation of the fuel consumption.

III. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for concrete recycling operations that are not adequately enclosed, the permittee shall perform daily inspections of such operations.
2. The above mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee may, upon receipt of written approval from the Cleveland Division of Air Quality (DAQ), modify the above mentioned inspection frequencies if operating experience indicated that less frequent inspections would be sufficient to ensure compliance with the 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, 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 following information:
 - a. the production rate of crushed slag processed for each day;
 - b. the application of water and/or chemical additives;
 - c. the name of the equipment operator responsible for the treatment; and,
 - d. the general weather conditions for each day, with respect to temperature, precipitation, wind speed and wind direction.
- 6. For each day during which the permittee burns a fuel other than diesel fuel the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit. The permittee shall also maintain documentation on the sulfur content of all fuels received.
- 7. The permittee shall maintain monthly records of the following information:
 - a. the operating hours for each month;
 - b. the fuel consumption for each month; and
 - c. beginning after the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, the rolling, 12-month summation of the fuel consumption.

Also, during the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, the permittee shall record the cumulative fuel

consumption for each calendar month.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation reports to the Cleveland DAQ that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

These deviation (excursion) reports shall be submitted in accordance with the general terms and conditions of this permit.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 60.672 of 40 CFR Part 60, including reports of opacity observations made using Method 9 to demonstrate compliance with 60.672(b) and the BAT limit for fugitive opacity contained in this permit.
4. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month limitation on fuel consumption; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative gallons of fuel consumption. These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.

V. Testing Requirements

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

Emissions Unit ID: F001

10.48 pounds/hour of PM from slag crushing operation

4.10 pounds/hour of PM₁₀ from slag crushing operation**Applicable Compliance Method**

Compliance with the hourly PM/PM₁₀ emission limitation shall be determined using the controlled emission factors for crushing and material handling operations in AP-42, Chapter 11.19.2 (Crushed Stone Processing), Fifth Edition, dated 1/1995. The watering controlled emission factors from AP-42, are 0.0012 for PM and 0.00054 for PM₁₀ for primary crushing, 0.00014 for PM and 0.000049 for PM₁₀ for conveyors and 0.0022 for PM and 0.00074 for PM₁₀ for screening in pounds/ton. The uncontrolled emission factor for hopper loading is 0.000016 for PM₁₀, for hopper loading PM emissions, multiply the PM₁₀ emissions by a factor of 2.1. For hopper loading only multiply by (1-.60) to account for the 60% watering emission control efficiency. The uncontrolled emission factor for pile formation is 9.5 lbs/hour of PM, multiply this by (1-.75) to account for 75% watering emission control efficiency. These emissions factors shall be multiplied by the maximum process weight rate, in tons/hour, for each operation identified in A.2 and summed.

b. **Emission Limitation:**

Visible emissions of fugitive dust shall not exceed ten percent opacity, as a six-minute average.

Applicable Compliance Method:

Compliance with the above visible emission limitation shall be determined through performance testing using Method 9 of 40 CFR, Part 60, Appendix A. See section V.2 below.

c. **Emission Limitation:**

0.062 lb PM/mmBtu and 1.17 lbs/hour of PM emissions from the diesel fired generator

Applicable Compliance Method

If required, compliance shall be determined by performing a stack test using Methods 1-5 of 40 CFR Part 60, Appendix A.

d. **Emission Limitation:**

1.08 lbs/hour of PM₁₀ emissions from the diesel fired generator

Applicable Compliance Method

Compliance with the hourly PM₁₀ emission limitation may be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, 5th edition compilation of Air Pollution Emission Factors Section 3.4, Table 3.4-2 (0.0573 lbs PM₁₀/mmBtu), by the capacity (18.93 mm Btu/hr).

If required, compliance shall be determined by performing a stack test using Methods 1-5 of 40 CFR Part 60, Appendix A.

- e. Emission Limitation:
35.97 lbs/hour of NO_x emissions from the diesel fired generator

Applicable Compliance Method

Compliance with the hourly NO_x emission limitation may be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 3.4, Table 3.4-1 (1.9 lbs NO_x/mmBtu, controlled), by the capacity (18.93 mmBtu/hr).

If required, compliance shall be determined by performing a stack test using Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

- f. Emission Limitation:
16.09 lbs/hour of CO emissions from the diesel fired generator

Applicable Compliance Method

Compliance with the hourly CO emission limitation may be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 3.4, Table 3.4-1 (0.85 lb CO/mmBtu), by the capacity (18.93 mmBtu/hr).

If required, compliance shall be determined by performing a stack test using Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

- g. Emission Limitation:
9.65 lbs/hour of SO₂ emissions from the diesel fired generator

Applicable Compliance Method

Compliance with the hourly SO₂ emission limitation may be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 3.4, Table 3.4-1 (1.01 lb SO₂/mmBtu x .5 sulfur content = 0.51 lb SO₂/mmBtu) by the capacity (18.93 mmBtu/hr).

If required, compliance shall be determined by performing a stack test using Methods 1-4 and 6 of 40 CFR Part 60, Appendix A.

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- h. Emission Limitation:
1.7 lbs/hour of OC emissions from the diesel fired generator
- Applicable Compliance Method
Compliance with the hourly OC emission limitation may be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 3.4, Table 3.4-1 (0.09 lb TOC/mmBtu) by the capacity (18.93 mmBtu/hr).
- If required, compliance shall be determined by performing a stack test using Methods 1-4 and 25 or 25A of 40 CFR Part 60, Appendix A.
- i. Emission Limitation:
Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule (from the diesel fired generator)
- Applicable Compliance Method:
Compliance shall be determined through performance testing using USEPA Method 9 of 40 CFR Part 60, Appendix A. See section V.2 below.
- j. Emission Limitations:
20.95 tons/year of PM emissions from crushing operation per rolling, 12-month period
8.21 tons/year of PM₁₀ emissions from crushing operation per rolling, 12-month period
- Applicable Compliance Method
Compliance may be determined by multiplying the lb/hour limitation by the actual annual operating hours per rolling 12-month period, and dividing by 2000 lbs/ton. Alternatively, if actual annual records of the amount of material processed is maintained for each part of the crushing operation, then actual annual emissions may be determined by multiplying the emission factors identified in V.1.a above by the actual annual amount of material processed, then multiply by control efficiency (as noted in V.1.a), and then divide by 2000 lbs/ton.
- k. Emission Limitation:
2.34 tons/year of PM emissions from the diesel fired generator per rolling, 12-month period;
1.11 tons/year of PM₁₀ emissions from the diesel fired generator per rolling, 12-month period;
36.76 tons/year of NO_x emissions from the diesel fired generator per rolling, 12-month period;
16.44 tons/year of CO emissions from the diesel fired generator per rolling,

12-month period;
9.87 tons/year of SO₂ emissions from the diesel fired generator per rolling,
12-month period;
1.74 tons/year of OC emissions from the diesel fired generator per rolling,
12-month period.

Applicable Compliance Method

Compliance shall be determined by multiplying the emission factor (noted above) for each pollutant by 135,000 Btu/gallon and then multiply by the actual annual amount of diesel fuel consumed per rolling 12-month period, and dividing by 2000 lbs/ton. The actual amount of diesel fuel consumed shall be determined in accordance with the record keeping in section C.7.

2. 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 90 days after the final issuance of this permit.
 - b. The emission testing shall be conducted to demonstrate compliance with opacity emission limitations for the primary crusher and transfer points listed in Section A.2.c of these terms and conditions with an emission limitation of 10%(transfer points) & 10%(crusher) opacity and subject to 40 CFR Part 60, subpart OOO. The emission testing is not required for wet screening operations and subsequent screening operations, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill or storage bin, or for screening operations, and belt conveyors in the production line downstream of wet mining operations, that process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.
 - c. The following test method(s) shall be employed to demonstrate compliance: for particulate emissions Method 9 of 40 CFR Part 60, Appendix A and the procedures in Section 60.11 of 40 CFR Part 60, subpart A, with the following additions:
 - i. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
 - ii. The observer shall, when possible, select a position that minimizes

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interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.

- iii. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
- d. When demonstrating compliance with the fugitive emissions standard for any crusher at which a capture system is not used as described under Section 60.672(c) of 40 CFR Part 60, subpart OOO, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:
 - i. There are no individual readings greater than 10 percent opacity; and
 - ii. There are no more than 3 readings of 10 percent for the 1-hour period.
- e. When demonstrating compliance with the fugitive emissions standard for the transfer points listed in Section A.2.c of these terms and conditions with an emission limitation of 10% opacity and subject to 40 CFR Part 60, subpart OOO, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:
 - i. There are no individual readings greater than 10 percent opacity; and
 - ii. There are no more than 3 readings of 10 percent for the 1-hour period.
- f. 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 Cleveland Division of Air Quality.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Cleveland Division of Air Quality. 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 Cleveland Division of Air Quality refusal to accept the results of the emission test(s).

Personnel from the Cleveland Division of Air Quality 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 appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland Division of Air Quality.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable emissions unit shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:
 - a. The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):
 - i. the portable emissions unit is equipped with the best available technology for such portable emissions unit;
 - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO) or registration status;
 - iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Cleveland Division of Air Quality and the appropriate field office having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and
 - iv. in the Cleveland Division of Air Quality's and the appropriate field office's (having jurisdiction over the new site) judgement, the proposed site is acceptable under OAC rule 3745-15-07.
 - b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:

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- i. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
 - ii. the portable emissions unit is equipped with best available technology;
 - iii. the portable emissions unit owner has identified the proposed site to Ohio EPA;
 - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - vi. 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
 - vii. the portable emissions unit owner has provided Ohio EPA with 15 days written notice of the relocation.
2. Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the Cleveland Division of Air Quality and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable 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 Cleveland Division of Air Quality and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the Cleveland Division of Air Quality, 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 Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

**Indep
PTI A
Issued: 9/12/2006**

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F001 - 500 TPH Portable Slag Crushing Plant including primary and secondary crushing, screening and conveyor system.	OAC rule 3745-31-05	LIMIT(s)

2. Additional Terms and Conditions

- 2.a None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

Independence Recycling, Inc Crusher Pit
PTI Application: 12 04621
Issue

Facility ID: 1318958479

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VI. Miscellaneous Requirements

None.