State of Ohio Environmental Protection Agency

Street Address:
Lazarus Gov. Center
50 West Town Street, Suite 700
Columbus, OH 43215

TELE: (614) 644-3020 **FAX:** (614) 644-2329

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

RE: FINAL PERMIT TO INSTALL
CUYAHOGA COUNTY
Application No: 13-04745
Fac ID: 1318958661

DATE: 1/24/2008

CERTIFIED MAIL

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
OOO	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

Allega Recycled Materials Company, Inc.
Jim Allega
5585 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

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

CC: **USEPA** **CLAA**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install	**Issue Date: 1/24/2008**
Terms and Conditions	**Effective Date: 1/24/2008**

FINAL PERMIT TO INSTALL 13-04745

Application Number: 13-04745

Facility ID: 1318958661

Permit Fee: **$1250**

Name of Facility: Allega Recycled Materials Company, Inc.

Person to Contact: Jim Allega

Address: 5585 Canal Road
Valley View, OH 44125

Location of proposed air contaminant source(s) [emissions unit(s)]:
5585 Canal Road
Valley View, **Ohio**

Description of proposed emissions unit(s):
Portable concrete and asphalt crushing plant 300 TPH (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

Chris Korleski
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 <u>emission limitations</u>, <u>operational restrictions</u>, <u>and control device operating parameter limitations</u>, 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

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.

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.

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 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 <u>obtained before</u> 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.

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.

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

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.

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).

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

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

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

Pollutant	Tons Per Year
PM	5.25
PM_{10}	2.72
NOx	14.12
CO	3.04
SO_2	0.92
OC	1.16

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. 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.

Operations, Property, and/or Equipment - (F001) - 300 TPH Crusher with screener, conveyor, front end loader and 1.6 mm Btu/hr generator.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	7.06 lbs/hour and 14.12 tons/year of NOx emissions from the diesel generator.
OAC rule 3745-17-07(A)	Visible particulate emission from any generator stack shall not exceed twenty percent opacity, as a six-minute average.
OAC rule 3745-17-07(B)(1)	Visible emissions of fugitive dust from the screening operation shall not exceed twenty percent opacity, as a three-minute average.
OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible particulate emissions of fugitive dust. (see A.2.a below).
OAC rule 3745-17-11(B)(5)(a)	0.31 lb mmBtu/ of particulate emissions of actual heat input for the diesel generator.
OAC rule 3745-18-06(B)	See A.2.d below.
40 CFR Part 60 Subpart OOO	Visible emissions of fugitive dust from conveyor belts and transfer points shall not exceed ten percent opacity, as a six-minute average. Visible emissions of fugitive dust from the crusher shall not exceed fifteen percent opacity, as a six-minute average.
OAC rule 3745-31-02(A)	< 10 tons/year of PM, PM_{10}, CO, SO_2 and OC each, see A.2.c below.

2. Additional Terms and Conditions

2.a The permittee shall employ reasonably available control measures for the material handling 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 introduction point to ensure compliance. The permittee shall also minimize the vertical free fall distance and the horizontal distance of the processed material in order to minimize the generation of fugitive emissions. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.b For each phase of the material handling operation that is not adequately enclosed, the control measure(s) shall be implemented if the permittee determined, 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) is unnecessary.

2.c Permit to Install 13-04745 for this air contaminant source takes into account the following voluntary restrictions (including use of any applicable air pollution control equipment) as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):

a. the use of water spray to reduce fugitive dust; and

b. limiting hours of operation to 4000 operating hours per year.

2.d Stationary internal combustion engines which have rated heat input capacities equal to, or less than, ten mm Btu per hour total rate capacity are exempt from the sulfur dioxide limitation contained in paragraphs (D), (F) and (G) of OAC rule 3745-18-06 and from OAC rule 3745-18-24 for Cuyahoga County.

2.e The portable concrete crushing plant operations that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

Load in to hopper
300 ton per hour concrete crusher
Screener
Conveyors
Diesel fuel burning power sources at the crusher, screener and conveyor

2.f Permanently and physically label this grinder 13-18-95-8661

B. Operational Restrictions

1. The maximum annual operating hours for this emissions unit shall not exceed 4,000 hours per year.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform daily inspections of such operation.

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 (CDAQ), modify the above mentioned inspection frequencies if operating experience indicates 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 compost materials 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 emission unit.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports to the CDAQ 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 permittee shall submit annual reports which identify any exceedances of the annual operating hours limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

4. 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) within 30 days.

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E. 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 Limitation:
   Visible emissions of fugitive dust from the screening operation shall not exceed twenty percent opacity, as a three minute average.

   Applicable Compliance Method:
   Compliance with the above visible emission limitation shall be determined using Method 9 of 40 CFR, Part 60, Appendix A.

   b. Emission Limitation:
   Visible emissions of fugitive dust from the conveyors and transfer points shall not exceed ten percent opacity, as a six minute average.

Applicable Compliance Method:
Compliance with the above visible emission limitation shall be determined using Method 9 of 40 CFR, Part 60, Appendix A.

c. Emission Limitation:
Visible emissions of fugitive dust from the crusher shall not exceed fifteen percent opacity, as a six minute average.

Applicable Compliance Method:
Compliance with the above visible emission limitation shall be determined using Method 9 of 40 CFR, Part 60, Appendix A.

d. Emission Limitation:
7.06 lbs/hour of NOx emissions from the 1.6 mm Btu/hr diesel generator.

Applicable Compliance Method
Compliance with the hourly NOx emission limitation shall 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 3.3, Table 3.3-1 (4.41 lb/mm Btu), by the input capacity (1.6 mm Btu/hr). If required, compliance shall be determined using Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

e. Emission Limitation:
14.12 tons/year of NOx emissions from the 1.6 mm Btu/hr diesel generator.

Applicable Compliance Method
The ton/year limitation was developed by multiplying the lb/hour by 4000 hours/year and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitation as long as the unit does not exceed 4000 operating hours annually.

f. Emission Limitation:
Visible particulate emissions from any generator stack shall not exceed twenty percent opacity as a six minute average.

Applicable Compliance Method
Compliance shall be determined by visible emission observations performed in accordance with USEPA Reference Method 9.

g. Emission Limitation:
0.31 lb PE/mm Btu from the diesel generator.

Applicable Compliance Method

Compliance with the hourly PE limitation shall be determined from the emission factor taken from the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 3.3, Table 3.3-1 (0.31 lb/mm Btu). If required, compliance shall be determined using Methods 1-5 of 40 CFR Part 60, Appendix A.

h. Emissions Limitation:
PM and PM_{10} emissions shall be less than 10.0 tons per year

Applicable Compliance Method
Compliance with the total PM and PM_{10} tons per year limitations can be obtained by adding the total PM and PM_{10} emissions from the crushing portion to the total PE and PM_{10} emissions from the generator portion of the emissions unit.

The total tons per year of PM and PM_{10} emissions from the crusher portion shall be determined by multiplying the maximum hourly controlled emissions rate for PM and PM_{10} each from the crusher by the maximum annual number of hours of operation allowed (4000), and then dividing by 2000 lbs/ton.

The total tons per year of PE/PM_{10} emissions from the generator portion shall be determined by multiplying the maximum hourly uncontrolled emissions rate for PM/PM_{10} by the maximum annual number of hours of operation allowed (4000), and then dividing by 2000 lbs/ton.

Therefore, provided compliance is shown with the hourly emission rates calculated for both the crushing and generator portions of the permit, compliance will also be shown with the annual limitation as long as the emissions unit does not exceed 4000 hours annually. See Part II section F.3.c below.

i. Emission limitation
CO, SO_2 and OC emissions shall be < 10 tons per year

Applicable Compliance Method
Compliance with the annual allowable emission limitation above may be demonstrated by multiplying the maximum hourly uncontrolled emissions rate for each pollutant by the maximum annual number of hours of operation allowed (4000), and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission rates calculated for each pollutant, compliance will also be shown with the annual limitation as long as the emissions unit does not exceed 4000 hours annually. See Part II section F.3.c below.

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.1 of these terms and conditions with an emission limitation of 10% (transfer points) & 15% (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 visible 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 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 15 percent opacity; and

   ii. There are no more than 3 readings of 15 percent for the 1-hour period.

e. When demonstrating compliance with the fugitive emissions standard for the transfer points listed in Section A.1 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 CDAQ.

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

Personnel from the CDAQ 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 CDAQ 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 CDAQ.

F. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable source may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable source 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 source is equipped with the best available technology for such portable source;

ii. the portable source is operating pursuant to a currently effective permit to install, permit to operate (PTO), or registration status;

iii. the applicant has provided proper notice of the intent to relocate the portable source to the CDAQ for the source within a minimum of 30 days prior to the scheduled relocation; and

iv. in the judgement of the CDAQ 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 source 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:

i. the portable source permittee possesses an Ohio EPA PTI, PTO or registration status;

ii. the portable source is equipped with best available technology;

iii. the portable source owner has identified the proposed site to CDAQ;

iv. CDAQ has determined that the portable source, 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 source owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable source to this proposed site; and

vii. the portable source owner has provided CDAQ with 15 days written notice of the relocation.

Any site approvals issued by the CDAQ, 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 CDAQ to determine compliance with all of the above criteria, the permittee of the portable source must file a " Notice of Intent to Relocate" within the specified time frame (30 or 15 days) prior to the relocation of the portable source with the CDAQ for the source site. Upon receipt of the notice the CDAQ will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive CDAQ approval prior to relocation of the portable source 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.

2. When determining compliance with the fugitive emissions standard for any crusher at which a capture system is not used as described under 60.672(c) of 40 CFR Part 60, 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:

   a. There are no individual readings greater than 15 percent opacity; and

   b. There are no more than 3 readings of 15 percent for the 1 hour period.

3. The potential to emit for this emissions unit was determined as follows:

   a. <u>Aggregate Crushing emissions</u>
   Given
   300 tons/hour maximum input/processing rate capacity of equipment
   4000 operating hours allowed per year
   Emission Factors taken from AP-42; 5th ed., Table 11.19.2-2 - 8/04

   AP-42 Emission Factors

Loading	for PM_{10}, 0.000016 lb of PM_{10}/ton processed
Crushing	for PM, 0.0054 lb of PM/ton processed for PM_{10}, 0.0024 lb of PM_{10}/ton processed Controlled for PM, 0.0012 lb PM/ton processed Controlled for PM_{10}, 0.00054 lb PM/ton processed
Conveyors	for PM, 0.003 lb of PM/ton processed for PM_{10}, 0.0011 lb of PM_{10}/ton processed Controlled for PM, 0.00014 lb of PM/ton processed Controlled for PM_{10}, 0.000049 lb of PM_{10}/ton processed
Screening	for PM, 0.025 lb of PM/ton processed for PM_{10}, 0.0087 lb of PM_{10}/ton processed Controlled for PM, 0.0022 lb of PM/ton processed Controlled for PM_{10}, 0.00074 lb of PM_{10}/ton processed

   <u>Potential to emit at 4000 hours per year</u>
   Loading
   Given: Control efficiency of 75%

   PM, PM_{10}
   (0.0048 lb of PM_{10}/hour) (1 - 0.75) = 0.0012 lb PM_{10}/hr

(0.0012 lb PM_{10}/hr) (4000 hours/year) (1 ton/2000 lbs) = 0.0024 ton PM_{10}/year

PM emissions may be estimated by multiplying PM_{10} emissions by a factor of 2.1 as shown below

PM emissions = (PM_{10} emissions) (2.1)
(0.0012 lb PM_{10}/hr) (2.1) = 0.0025 lb PM/hr
(0.0024 ton PM_{10}/year) (2.1) = 0.005 ton PM/year

Crushing
PM, PM_{10}
(300 tons/hour) (0.0012 lb of PM/ton processed)= 0.36 lb PM/hour
(0.36 lb of PM/hour) (4000 hours/year) (1 ton/2000 lbs) = 0.72 ton PM/year

(300 tons/hour) (0.00054 lb of PM_{10}/ton processed) = 0.16 lb PM_{10}/hour
(0.16 lb of PM_{10}/hour) (4000 hours/year) (1 ton/2000 lbs) = 0.32 ton PM_{10}/year

Conveyors
Given: Three conveyors
PM, PM_{10} - per conveyor
(300 tons/hour) (0.00014 lb of PM/ton processed)= 0.04 lb PM/hour
(0.04 lb of PM/hour) (4000 hours/year) (1 ton/2000 lbs) = 0.08 ton PM/year
(300 tons/hour) (0.000049 lb of PM_{10}/ton processed)= 0.01 lb PM_{10}/hour
(0.01 lb of PM_{10}/hour) (4000 hours/year) (1 ton/2000 lbs) = 0.02 ton PM_{10}/year

PM, PM_{10} - combined total for 3 conveyors
3 conveyors x (0.04 lb PM/hour) = 0.12 lb PM/hour
3 conveyors x (0.08 TPY PM) = 0.24 TPY PM
3 conveyors x (0.01 lb PM_{10}/hour) = 0.03 lb PM_{10}/hour
3 conveyors x (0.02 TPY PM_{10}) = 0.06 TPY PM_{10}

Screening
PM, PM_{10}
(300 tons/hour) (0.0022 lb of PM/ton processed) = 0.66 lb PM/hour
(0.66 lb of PM/hour) (4000 hours/year) (1 ton/2000 lbs) = 1.32 ton PM/year

(300 tons/hour) (0.00074 lb of PM_{10}/ton processed)= 0.22 lb PM_{10}/hour
(0.22 lb of PM_{10}/hour) (4000 hours/year) (1 ton/2000 lbs) = 0.44 ton PM_{10}/year

Pile Formation
Given: 75% control efficiency
PM, PM_{10}
(3.9 lb of PM/hour) (1 - 0.75) = 0.98 lb PM/hr
(0.98 lb PM/hr) (4000 hours/year) (1 ton/2000 lbs) = 1.96 ton PM/year

(1.8 lb of PM_{10}/hour) (1 - 0.75) = 0.45 lb PM_{10}/hr
(0.45 lb PM_{10}/hr) (4000 hours/year) (1 ton/2000 lbs) = 0.90 ton PM_{10}/year

Totals:
2.04 lbs/hr PM 4.09 TPY PM

0.84 lb/hr PM_{10} 1.68 TPY PM_{10}

b. Diesel Generator Emissions
Given:
diesel burning generator for supplying the crusher with electricity
1.6 mm Btu/hr engine

Emission factors are taken from AP-42, 5th Edition, Section 3.3, Table 3.3-1
Emission factor for PE/PM_{10} = 0.31 lb PE/mm Btu
Emission factor for NOx = 4.41 lb NOx/mm Btu
Emission factor for CO = 0.95 lb CO/mm Btu
Emission factor for SOx = 0.29 lb So_2/mm Btu
Emission factor for TOC = 0.36 lb OC/mm Btu

Particulate Emissions (PE/PM_{10}) - PTE at 4000 hours/year
AP-42 Emission Factor = 0.31 lb PE/mm Btu
OAC rule 3745-17-11(B)(5)(a)
(1.6 mm Btu/hour) (0.31 lb PE/mm Btu) = 0.50 lb PE/hour
(0.50 lb PE/hour) (4000 hours/year) (1 ton/2000 lbs) = 1.0 TPY PE/PM_{10}

Nitrous Oxides (NOx) - PTE at 4000 hours/year
AP-42 Emission Factor = 4.41 lb NOx/mm Btu
(1.6 mm Btu/hour) (4.41 lb NOx/mm Btu) = 7.06 lbs NOx/hour
(7.06 lbs NOx/hour) (4000 hours/year) (1 ton/2000 lbs) = 14.12 TPY NOx

Carbon Monoxide (CO) - PTE at 4000 hours/year
AP-42 Emission Factor = 0.95 lb CO/mm Btu
(1.6 mm Btu/hour) (0.95 lb CO/mm Btu) = 1.52 lb CO/hour
(1.52 lb CO/hour) (4000 hours/year) (1 ton/2000 lbs) = 3.04 TPY CO

Sulfer Dioxide (SO_2) - PTE at 4000 hours/year
AP-42 Emission Factor = 0.29 lb SO_2/mm Btu
(1.6 mm Btu/hour) (0.29 lb SO_2/mm Btu) = 0.46 lb SO_2/hour
(0.46 lb SO_2/hour) (4000 hours/year) (1 ton/2000 lbs) = 0.92 TPY SO_2

Organic Compound (OC) - PTE at 4000 hours/year
AP-42 Emission Factor = 0.36 lb OC/ mm Btu
(1.6 mm Btu/hour) (0.36 lb OC/mm Btu) = 0.58 lb OC/hour
(0.58 lb OC/hour) (4000 hours/year) (1 ton/2000 lbs) = 1.16 TPY OC

c. Combined crusher and generator PM/PM_{10} TPY emissions
(4.25 TPY PM from crusher) + (1.0 TPY PE from generator) = 5.25 TPY PM total
(1.72 TPY PM10 from crusher) + (1.0 TPY PM_{10} from generator) = 2.72 TPY PM_{10} total

Allega Recycled Materials Co., Inc. **Facility ID: 1318958661**
PTI Application: 13-04745
Issued: 1/24/2008

SIC CODE 3531 SCC CODE EMISSIONS UNIT ID F001

EMISSIONS UNIT DESCRIPTION 300 TPH Crusher with screener, conveyor and front end loader

DATE INSTALLED To be installed in Feb, 2008.

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment		2.62 TPY	0.31 lb/mm BTU for generator	< 10 TPY
PM_{10}	Non-attainment		1.36 TPY	0.31 lb/mm BTU for generator	< 10 TPY
Sulfur Dioxide	Attainment	0.46 lb/hr	0.46 TPY	N/A	< 10 TPY
Organic Compounds	Attainment	0.58 lb/hr	0.58 TPY	N/A	< 10 TPY
Nitrogen Oxides	Non-Attainment	7.06 lbs/hr	7.06 TPY	7.06 lbs/hr	14.12 TPY
Carbon Monoxide	Attainment	1.52 lbs/hr	1.52 TPY	N/A	< 10 TPY
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? OOO PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?
Enter Determination BAT determination for NOx is limiting operating hours to 4000 hours year. BAT does not apply to PM, PM_{10}, CO, NOx, SO_2 or OC.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? NO

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? $ N/A

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES X NO

IDENTIFY THE AIR CONTAMINANTS: _____