



State of Ohio Environmental Protection Agency

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**CERTIFIED MAIL**

**RE: FINAL PERMIT TO INSTALL MODIFICATION**

**KNOX COUNTY**

**Application No: 01-12124**

**Fac ID: 0142010065**

**DATE: 7/3/2007**

Owens Corning  
George Bertko  
100 Blackjack Road  
Mt. Vernon, OH 43050

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

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

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



## STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

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**Permit To Install  
Terms and Conditions**

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**Issue Date: 7/3/2007  
Effective Date: 7/3/2007**

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## FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 01-12124

Application Number: 01-12124

Facility ID: 0142010065

Permit Fee: **\$0**

Name of Facility: Owens Corning

Person to Contact: George Bertko

Address: 100 Blackjack Road  
Mt. Vernon, OH 43050

Location of proposed air contaminant source(s) [emissions unit(s)]:

**100 Blackjack Road  
Mount Vernon, Ohio**

Description of proposed emissions unit(s):

**Fabrication and packaging.**

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification 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 source(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 included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

A handwritten signature in cursive script that reads "Chris Korleski".

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Chris Korleski  
Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install 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 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 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. Records Retention Requirements

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.

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections,

conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. 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, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. 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 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. 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 emissions unit(s) that is (are) served by such control system(s).

**6. 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.

**7. 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.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install 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.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. 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 the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install 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.

#### **10. 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.

#### **11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

#### **12. 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.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This 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 emissions unit(s) covered by this permit.

**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) 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.

**15. 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 this Permit to Install.

**B. 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**

<u>Pollutant</u>	<u>Tons Per Year</u>
NOx	10.19
CO	91.54
SO2	6.95
VOC	36.56
PE	78.13

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**Owens Corning**  
**PTI Application: 01-12124**  
**Modification Issued: 07/03/2007**

**Facility ID: 014201006**

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

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

- 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 - (P037) - fabrication and packaging that include the following operations: fiberizers, rotary formers, mills, baggers and screen filters (Terms in this permit supercede those identified in PTI 01-12015 issued 3/28/2006)**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>Particulate emissions (PE) shall not exceed 17.84 pounds per hour and 78.13 tons/year.</p> <p>See A.2.a and A.2.b.</p> <p>Sulfur dioxide emissions (SO<sub>2</sub>) shall not exceed 1.59 pounds per hour and 6.95 tons/year.</p> <p>Nitrogen oxide emissions (NO<sub>x</sub>) shall not exceed 2.33 pounds per hour and 10.19 tons/year.</p> <p>Carbon monoxide emissions (CO) shall not exceed 20.9 pounds per hour and 91.54 tons/year.</p> <p>Volatile organic compound emissions (VOC) shall not exceed 8.35 pounds per hour and 36.56 tons/year.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-05(C).</p>
OAC rule 3745-17-07(A)(1)	<p>Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except for a period of not more than 6 consecutive minutes in any 60-minute period. Visible particulate emissions shall not exceed 60% opacity, as a 6-minute average, at any time.</p>
40 CFR Part 60, Subpart PPP	<p>The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).</p>

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-18-06	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-31-05(C)	See A.2.c.

**2. Additional Terms and Conditions**

- 2.a. Particulate emissions shall not exceed 11.0 pounds per ton of glass pulled.
- 2.b. The hourly and annual PE emissions limits for this emissions unit are based on the emission unit's potential to emit vented through its associated rotary filters. Therefore, the monitoring, record keeping and reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.
- 2.c. The permittee shall limit particulate emissions from emissions units P004, P006, P030, P031, P032, P033, P034, and P037 to 85.77 tons per year. This is based upon the maximum potential to emit for these emission units.

**B. Operational Restrictions**

- 1. The rotary filters shall be in operation whenever this emission unit is in operation.

**C. Monitoring and/or Recordkeeping Requirements**

- 1. The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the drum filter modules during operation of this emissions unit, including periods of startup and shutdown. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop, in inches of water, across the drum filter modules on a daily basis.

Whenever the monitored value for the pressure drop deviates from the ranges specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the

date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable pressure drop ranges specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the drum filter modules is 0.1 to 5.5 inches of water.

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

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and

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

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

3. The observance of visible emissions may or may not indicate a mass emission and / or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and / or visible emission limitation shall be determined by performing mass emission tests and / or visible emission readings, using USEPA - approved methods and procedures

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

4. The permit to install for this emissions unit P037 was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied to this emissions unit for each toxic pollutant, using data from the permit to install application, and modeling was performed for the toxic pollutant(s) emitted at over a ton per year using the ISC-Prime model or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the use of the ISC-Prime (or other approved) model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as required in Engineering Guide #70. The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: ethanol

TLV (mg/m<sup>3</sup>): 1884

Maximum Hourly Emission Rate (lbs/hr): 8.04

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m<sup>3</sup>): 29.5

MAGLC (ug/m<sup>3</sup>): 44,863

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**Owens Corning**  
**PTI Application: 01-12124**  
**Modification Issued: 07/03/2007**

**Facility ID: 014201006**  
**Emissions Unit ID: P037**

5. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
  - a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound or chemical with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled, as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" ("Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices");
  - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
  - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
6. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) meet(s) the definition of a "modification" under other provisions of the rule, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of the evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

#### D. Reporting Requirements

1. The permittee shall submit quarterly reports to the Ohio EPA Central District Office that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:
  - a. each period of time when the pressure drop across the rotary drum filter was outside of the acceptable range; and
  - b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted; and
  - c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
  - d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

#### E. Testing Requirements

1. Compliance with the emission limitations in Section A. of these terms and condition shall be determined in accordance with the following methods:
  - a. Emission Limitation: Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except for a period of not more than 6 consecutive minutes in any 60-minute period. Visible particulate emissions shall not exceed 60% opacity, as a

6-minute average, at any time.

Applicable Compliance Method: If required pursuant to OAC rule 3745-15-04, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in EPA Method 9 of 40 CFR Part 60, Appendix A

- b. Emission Limitation: Particulate emissions (PE) shall not exceed 17.84 pounds per hour and 78.13 tons/year.

Applicable Compliance Method: Compliance with the hourly emission limit shall be demonstrated using maximum process throughput and the Owens Corning (OC) specific emission developed using data from the most recent compliance demonstration.

$E(PE) = \text{OC-specific emission factor (lb/ton)} \times \text{maximum throughput (tons/hr)}$ .

Compliance with the annual emission limit shall be demonstrated by multiplying the allowable hourly emission rate by 8760 hours / year and dividing by 2000 lbs / ton. Compliance with the tons per year emission limitation shall be assumed provided compliance with the hourly emission limitation is maintained.

- c. Emission Limitation: Sulfur dioxide emissions (SO<sub>2</sub>) shall not exceed 1.59 pounds per hour and 6.95 tons/year.

Applicable Compliance Method: Compliance with the hourly emission limit shall be demonstrated using maximum process throughput and the Owens Corning (OC) specific emission developed using data from the most recent compliance demonstration.

$E(\text{SO}_2) = \text{OC-specific emission factor (lb/ton)} \times \text{maximum throughput (tons/hr)}$ .

Compliance with the annual emission limit shall be demonstrated by multiplying the allowable hourly emission rate by 8760 hours / year and dividing by 2000 lbs / ton. Compliance with the tons per year emission limitation shall be assumed provided compliance with the hourly emission limitation is maintained.

- d. Emission Limitation: Nitrogen oxide emissions (NO<sub>x</sub>) shall not exceed 2.33 pounds per hour and 10.19 tons/year.

Applicable Compliance Method: The hourly and annual NO<sub>x</sub> emission limitations represent the potential to emit for this emissions unit using AP-42 Table 1.4-1 emission factors and maximum natural gas consumption. Therefore no hourly

record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with these limitation.

- e. Emission Limitation: Carbon monoxide emissions (CO) shall not exceed 20.9 pounds per hour and 91.54 tons/year.

Applicable Compliance Method: Compliance with the hourly emission limit shall be demonstrated using maximum process throughput and the Owens Corning (OC) specific emission developed using data from the most recent compliance demonstration.

$E(\text{CO}) = \text{OC-specific emission factor (lb/ton)} \times \text{maximum throughput (tons/hr)}$ .

Compliance with the annual emission limit shall be demonstrated by multiplying the allowable hourly emission rate by 8760 hours / year and dividing by 2000 lbs / ton. Compliance with the tons per year emission limitation shall be assumed provided compliance with the hourly emission limitation is maintained.

- f. Emission Limitation: Volatile organic compound emissions (VOC) shall not exceed 8.35 pounds per hour and 36.56 tons/year.

Applicable Compliance Method: Compliance with the hourly emission limit shall be demonstrated by emissions testing.

Compliance with the annual emission limit shall be demonstrated by multiplying the allowable hourly emission rate by 8760 hours/year and dividing by 2000 lbs/ton. Compliance with the tons per year emission limitation shall be assumed provided compliance with the hourly emission limitation is maintained.

- g. Emission Limitation: Particulate emissions shall not exceed 11.0 pounds per ton of glass pulled.

Applicable Compliance Method: Compliance with this emission limitation shall be determined using facility records of glass pull rates and data from the most recent compliance demonstration.

## F. Miscellaneous Requirements

1. The following Terms and Conditions have been incorporate into this permit in order to establish federally-enforceable limitations on potential to emit, pursuant to OAC rule 3745-31-05(C): Part II, Sections A., B, C.1., C.2., D., E., and F.
2. Emission testing associated with this permit was completed within 180 days of startup

of the emission unit. No additional emission testing required by this Permit to Install.

Owens Corning

PTI Application: 01-12124

Modification Issued: 07/03/2007

Facility ID: 014201006

SIC CODE 3296 SCC CODE \_\_\_\_\_ EMISSIONS UNIT ID P037

EMISSIONS UNIT DESCRIPTION

fabrication and packaging that include the following operations: fiberizers, rotary formers, mills, baggers and screen filters (Terms in this permit supercede those identified in PTI 01-12015 issued 3/28/2006)

DATE INSTALLED 11/2005

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	17.84 lb/hr	78.13	17.84 lb/hr	78.13
PM <sub>10</sub>		17.84 lb/hr	78.13	17.84 lb/hr	78.13
Sulfur Dioxide		1.59 lb/hr	6.95	1.59 lb/hr	6.95
Organic Compounds	non-attainment for ozone	8.35 lb/hr	36.56	8.35 lb/hr	36.56
Nitrogen Oxides		2.33 lb/hr	10.19	2.33 lb/hr	10.19
Carbon Monoxide		20.9 lb/hr	91.54	20.9 lb/hr	91.54
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? N/A

NESHAP? PPP

PSD? N/A

OFFSET POLICY? N/A

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

BAT is a rotary drum filter for particulate control, combustion products from glass furnaces are typically uncontrolled.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$N/A (already installed)

### 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\*?      XX      YES             NO

IDENTIFY THE AIR CONTAMINANTS: ethanol (modeled during previous permitting action, no change to material input proposed so modeling was not repeated)