FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) OFFICE OF AIR MANAGEMENT

Century Marble Company, Inc.
3525 State Road 32 West
Westfield, Indiana 46074

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the facilities listed in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 and 326 IAC 2-1-3.2, as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F057-8653-00045	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) and presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary fiberglass marble fixtures and panels manufacturing operation.

Responsible Official:	Ronald L. Maurer
Source Address:	3525 State Road 32 West, Westfield, Indiana 46074
Mailing Address:	3525 State Road 32 West, Westfield, Indiana 46074
SIC Code:	3088
County Location:	Hamilton
County Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD Rules; Minor Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

(1) one (1) gel coat spray booth, identified as Booth #1 (ID No. 007), utilizing an air atomized application system, coating marble fixtures using a maximum of 14.36 gallons per hour of gel coat, with dry filters for overspray control, and exhausting at one (1) stack, identified as EP007;

(2) one (1) gel coat repair spray booth, identified as Booth #2 (ID No. 003), utilizing an air atomized application system, coating marble fixtures using a maximum of 9.10 gallons per hour of gel coat, with dry filters for overspray control, and exhausting at one (1) stack, identified as EP003;

(3) one (1) open fiberglass marble fixture manufacturing process, consisting of open resin blenders (ID No. 009), utilizing a flowcoating application system, using a maximum of 15.0 gallons per hour of resin, exhausting at one (1) stack, identified as EP009;

(4) one (1) closed fiberglass marble panel manufacturing process, consisting of closed resin blenders (ID No. 005), utilizing a flowcoating application system, using a maximum of 15.0 gallons per hour of resin, exhausting at one (1) stack, identified as EP005;

(5) one (1) fiberglass marble panel sanding and cutting booth (ID No. 006), utilizing one (1) drum sander, with a cartridge baghouse for particulate matter control, exhausting through one (1) stack, identified as EP006;

(6) one (1) fiberglass marble fixture grinding booth (ID No. 008), utilizing hand grinders, with a cartridge baghouse for particulate matter control, exhausting through one (1) stack, identified as EP008; and

(7) one (1) No. 2 distillate fuel oil fired boiler (ID No. 004), rated at 2.05 million (MM) British thermal units (Btu) per hour, exhausting through one (1) stack, identified as EP004.

A.3 Insignificant Activities [326 IAC 2-7-1(20)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(20):

(1) two (2) polyester resin storage tanks (ID Nos. 00291 and 00146), each with a storage capacity of 5,880 gallons, each exhausting through one (1) stack, identified as EP001 and EP002, respectively;

(2) one (1) fiberglass marble fixture buffing booth; and

(3) one (1) auxiliary electric pump for fire protection.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) for a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permit Conditions Superseded [326 IAC 2]

This permit supersedes the operating conditions of all construction and operating permits issued to this stationary source under 326 IAC 2 prior to the effective date of this FESOP.

SECTION B GENERAL CONDITIONS

B.1 General Requirements [IC 13-15] [IC 13-17]

The Permittee shall comply with the provisions of IC 13-15 (Permits Generally), IC 13-17 (Air Pollution Control) and the rules promulgated thereunder.

B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

B.4 Enforceability [326 IAC 2-8-6]

(a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM.

(b) Unless otherwise stated, terms and conditions of this permit, including any provisions to limit the source's potential to emit, are enforceable by the United States Environmental Protection Agency (U.S. EPA) and citizens under the Clean Air Act.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)] [326 IAC 2-8-7(a)(3)]

(a) The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

(b) Indiana rules from 326 IAC quoted in conditions in this permit are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(b) The Permittee shall furnish to IDEM, OAM, within a reasonable time, any information that

IDEM, OAM, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.

(c) Upon request, the Permittee shall also furnish to IDEM, OAM, copies of records required to be kept by this permit. For information claimed to be confidential, the Permittee shall furnish such records directly to the U.S. EPA and IDEM, OAM, along with a claim of confidentiality.

Such confidentiality claims shall meet the requirements of 40 CFR 2, Subpart B (when submitting to U.S. EPA) and 326 IAC 17 (when submitting to IDEM, OAM).

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAM may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

(a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit constitutes a violation of the Clean Air Act and is grounds for:

(1) Enforcement action;

(2) Permit termination, revocation and reissuance, or modification; and

(3) Denial of a permit renewal application.

(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 conditions of this permit.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)]

(a) Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification, and any other certification required under this permit, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) This certification shall be submitted on the attached Certification Form.

(c) A responsible official is defined at 326 IAC 2-7-1(33).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

(a) The Permittee shall annually certify that this source has complied with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The certification shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(b) This annual compliance certification report required by this permit shall be timely if

delivered by any method and received and stamped by IDEM, OAM, on or before the date it is due. [326 IAC 2-5-3]

(c) The annual compliance certification report shall include the following:

(1) The identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and

(5) Such other facts as specified in Sections D of this permit, IDEM, OAM, may require to determine the compliance status of the source.

(d) The Permittee shall also annually certify that this source is in compliance with additional requirements as may be specified under Sections 114(a)(3) and 504(b) of the Clean Air Act.

B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

(a) The Permittee shall prepare, maintain and implement Preventive Maintenance Plans (PMP) within ninety (90) days after the issuance of this permit, including the following information on each:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;

(3) Corrective actions that will be implemented in the event an inspection indicates an out of specification situation;

(4) A time schedule for taking such corrective actions including a schedule for devising additional corrective actions for situations that may not have been predicted; and

(5) Identification and quantification of the replacement parts which will be maintained in inventory for quick replacement.

(b) PMPs shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM.

B.14 Emergency Provisions [326 IAC 2-8-12]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an

action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAM, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Management, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967

Failure to notify IDEM, OAM, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

(5) For each emergency lasting one (1) hour or more, the Permittee submitted notice either in writing or facsimile, of the emergency to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(33).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) IDEM, OAM, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.

(f) Failure to notify IDEM, OAM, by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any corrective actions or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ten (10) calendar days from the date of the discovery of the deviation.

(b) Written notification shall be submitted on the attached Deviation Occurrence Reporting Forms or their substantial equivalent.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)]

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAM determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

(c) Proceedings by IDEM, OAM, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAM, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM and shall include, at minimum, the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(20).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

(b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]

(1) The Permittee has a duty to submit a timely and complete permit renewal application. A timely renewal application is one that is:

(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(B) Delivered by any method and received and stamped by IDEM, OAM, on or before the date it is due. [326 IAC 2-5-3]

(2) If IDEM, OAM upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this

existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

(c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAM takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAM, any additional information identified as needed to process the application.

B.18 Administrative Permit Amendment [326 IAC 2-8-10]

(a) An administrative permit amendment is a FESOP revision that makes changes of the type specified under 326 IAC 2-8-10(a).

(b) An administrative permit amendment may be made by IDEM, OAM, consistent with the procedures specified under 326 IAC 2-8-10(b).

(c) The Permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Minor Permit Modification [326 IAC 2-8-11(a)] [326 IAC 2-8-11(b)(1) and (2)]

(a) A permit modification is any revision to this permit that cannot be accomplished as an administrative permit amendment under 326 IAC 2-8-10.

(b) Minor modification of this permit shall follow the procedures specified under 326 IAC 2-8-11(b)(1)(A) through (F).

(c) An application requesting the use of minor modification procedures shall meet the requirements of 326 IAC 2-8-3(c) and shall include the information required in 326 IAC 2-8-11(b)(3)(A) through (D).

(d) The Permittee may make the change proposed in its minor permit modification application immediately after it files such application unless the change is subject to the construction permit requirements of 326 IAC 2-1, 326 IAC 2-2, or 326 IAC 2-3. After the Permittee makes the change allowed under minor permit modification procedures, and until IDEM, OAM takes any of the actions specified in 326 IAC 2-8-11(b)(5), the Permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this period, the Permittee need not comply with the existing permit terms and conditions it seeks to modify. If the Permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against it. [326 IAC 2-8-11(b)(6)]

B.20 Significant Permit Modification [326 IAC 2-8-11(d)]

(a) Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative amendments.

(b) Any significant change in existing monitoring permit terms or conditions and every relaxation of reporting or record keeping permit terms or conditions of this permit shall be considered significant.

(c) Nothing in 326 IAC 2-8-11(d) shall be construed to preclude the Permittee from making changes consistent with 326 IAC 2-8 that would render existing permit compliance terms and conditions irrelevant.

(d) Significant modifications of this permit shall meet all requirements of 326 IAC 2-8, including those for application, public participation, and review by U.S. EPA, as they apply to permit issuance and renewal.

B.21 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-8-11(b)(2)]

Notwithstanding 326 IAC 2-8-11(b)(1)(D)(i) and 326 IAC 2-8-11(c)(1), minor permit modification procedures may be used for modifications of this permit involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches to the extent that such minor permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated by U.S. EPA.

B.22 Changes Under Section 502(b)(10) of the Clean Air Act [326 IAC 2-8-15(b)]

The Permittee may make Section 502(b)(10) of the Clean Air Act changes without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional condition:

For each such change, the required written notification shall include a brief description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

B.23 Operational Flexibility [326 IAC 2-8-15]

(a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any approval required by 326 IAC 2-1 has been obtained;

(3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAM, in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).

(b) For each such change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(33).

(c) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).

(d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAM or U.S. EPA is required.

(e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.24 Construction Permit Requirement [326 IAC 2]

Modification, construction, or reconstruction shall be permitted as required by and in accordance with 326 IAC 2.

B.25 Inspection and Entry [326 IAC 2-8-5(a)(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAM, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements. [326 IAC 2-8-5(a)(4)]

B.26 Transfer of Ownership or Operation [326 IAC 2-1-6] [326 IAC 2-8-10]

Pursuant to 326 IAC 2-1-6 and 2-8-10:

(a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAM, Permits Branch, within thirty (30) days of the change. Notification shall include a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current Permittee and the new owner.

(b) The written notification shall be sufficient to transfer the permit to the new owner.

(c) IDEM, OAM shall reserve the right to issue a new permit.

B.27 Annual Fee Payment [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

(a) The Permittee shall pay annual fees to IDEM, OAM, consistent with the fee schedule established in 326 IAC 2-8-16.

(b) Failure to pay may result in administrative enforcement action, revocation of this permit, referral to the Office of Attorney General for collection, or other appropriate measures.

(c) The Permittee shall pay the annual fee within thirty (30) calendar days of receipt of a billing by IDEM, OAM or in a time period that is consistent with the payment schedule issued by IDEM, OAM.

(d) If the Permittee does not receive a bill from IDEM, OAM, thirty (30) calendar days before the due date, the Permittee shall call the following telephone numbers: 1-800-451-6027 or 317-233-5674 (ask for OAM, Data Support Section), to determine the appropriate permit fee. The applicable fee is due April 1 of each year.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

(1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per three hundred sixty-five (365) consecutive day period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable;

(2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per three hundred sixty-five (365) consecutive day period; and

(3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per three hundred sixty-five (365) consecutive day period.

(b) The particulate matter (PM) potential to emit from the entire source shall be limited to less than two hundred fifty (250) tons per three hundred sixty-five (365) consecutive day period, therefore, 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) will not apply.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(20). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2(Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:

(a) Visible emissions shall not exceed an average of forty percent (40%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4,

(b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall be in violation of 326 IAC 6-4 (Fugitive Dust Emissions) if any of the criteria specified in 326 IAC 6-4-2 (1) through (4) are violated. Observations of visible emissions crossing the property line of the source at or near ground level must be made by a qualified representative of IDEM. [326 IAC 6-4-5(c)].

C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]

(a) All equipment that may emit pollutants into the ambient air shall be properly operated to meet the requirements of this permit and maintained in accordance with Section B - Preventive Maintenance Plan.

(b) Unless otherwise stated in this permit, all air pollution control equipment listed in this permit shall be operated at all times that the emission units vented to the control equipment are in operation.

(c) The Permittee shall perform all necessary maintenance according to the Preventive Maintenance Plan and make all necessary attempts to keep all air pollution control equipment in proper operating condition at all times such that the requirements of this permit are met.

C.7 Asbestos Abatement Projects - Accreditation [326 IAC 14-10] [326 IAC 18-1] [40 CFR 61, Subpart M]

Prior to the commencement of any demolition or renovation activities, the Permittee shall use an Indiana accredited asbestos inspector to inspect thoroughly the affected facility or part of the facility where the demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II nonfriable asbestos containing material. The requirement that the inspector must be Indiana accredited is not federally enforceable.

Testing Requirements [326 IAC 2-8-4(3)]

C.8 Performance Testing [326 IAC 3-2.1]

All testing shall be performed according to the provisions of 326 IAC 3-2.1 (Source Sampling Procedures), utilizing methods approved by the IDEM, OAM.

The test protocol shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days before the intended test date.[326 IAC 3-2.1-2(a)]

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.9 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Compliance with applicable requirements shall be documented in accordance with the provisions of 326 IAC 2-8-4(3). The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee shall notify:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

in writing no more than ninety (90) days after receipt of this permit, with full justification of the reasons for inability to meet this date and a schedule which it expects to meet. If a denial of the request is not received before the monitoring is fully implemented, the schedule shall be deemed approved.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(33).

C.10 Maintenance of Monitoring Equipment [326 IAC 2-8-4(3)(A)(iii)]

(a) The Permittee shall perform all necessary maintenance and make all necessary and reasonable attempts to keep all required monitoring equipment in proper operating condition at all times.

(b) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.

(c) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment.

(d) Preventive Maintenance Plans of the monitors shall be implemented. In addition, prompt corrective action shall be initiated whenever indicated.

C.11 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the requirements of this permit shall be performed, whenever applicable according to the provisions of 326 IAC 3, or 40 CFR 60, Appendix A, as appropriate, unless some other method is specified in this permit.

C.12 Pressure Gauge Specifications

Whenever a condition in this permit requires the taking of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

C.13 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18-1] [40 CFR 61.140]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) Written notification is to be sent on a form provided by the commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) asbestos removal or demolition start date;

(B) removal or demolition contractor; or

(3) Waste disposal site.

(c) The Permittee shall postmark or deliver the notice according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are mandatory for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

Corrective Actions [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance is present in more than the threshold quantity that is subject to 40 CFR 68, 40 CFR 68 is an applicable requirement, and the Permittee shall:

(a) Submit:

(1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or

(2) As part of the compliance certification submitted under 326 IAC 2-8-5(a)(1), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and

(3) A verification to IDEM, OAM that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.

(b) Provide annual certification to IDEM, OAM that the Risk Management Plan is being properly implemented.

C.15 Compliance Monitoring Plan - Failure to Take Corrective Action [326 IAC 2-8-4(3)]

(a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:

(1) This condition;

(2) The Compliance Determination Requirements in Section D of this permit;

(3) The Compliance Monitoring Requirements in Section D of this permit;

(4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and

(5) The Preventive Maintenance Plan described in Section B, Preventive Maintenance Plan, of this permit.

(b) For each compliance monitoring condition of this permit appropriate corrective actions, as described in the Preventive Maintenance Plan, shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the corrective actions within the prescribed time contained within the Preventive Maintenance Plan shall constitute a violation of the permit unless taking the corrective action set forth in the Preventive Maintenance Plan would be unreasonable.

(c) After investigating the reason for the excursion, the Permittee may be excused from taking further corrective action for any of the following reasons:

(1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further corrective actions providing that prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied; or

(3) An automatic measurement was taken when the process was not operating; or

(4) The Permittee determines that the process has already returned to operating within "normal" parameters and no corrective action is required.

(d) Records shall be kept of all instances in which the action values were not met and of all corrective actions taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit, exceed the level specified in any condition of this permit, appropriate corrective actions shall be taken. A description of these corrective actions shall be submitted to IDEM, OAM within thirty (30) days of receipt of the test results. These corrective actions shall be implemented immediately unless notified by IDEM, OAM that they are not acceptable. The Permittee shall make every effort to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM reserves the right to utilize enforcement activities to resolve the non-compliant stack test.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.17 Monitoring Data Availability

(a) All observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.

(b) When the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.

(c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.

(d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.

(e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.

(f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements in (a) above.

C.18 General Record Keeping Requirements [326 IAC 2-8-4(3)(B)]

(a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location and available within one (1) hour upon verbal request of an IDEM, OAM representative, for a minimum of three (3) years. They may be stored elsewhere for the remaining two (2) years providing they are made available within thirty (30) days after written request.

(b) Records of required monitoring information shall include, where applicable:

(1) The date, place, and time of sampling or measurements;

(2) The dates analyses were performed;

(3) The company or entity performing the analyses;

(4) The analytic techniques or methods used;

(5) The results of such analyses; and

(6) The operating conditions existing at the time of sampling or measurement.

(c) Support information shall include, where applicable:

(1) Copies of all reports required by this permit;

(2) All original strip chart recordings for continuous monitoring instrumentation;

(3) All calibration and maintenance records;

(4) Records of any required preventive maintenance and corrective actions that were implemented. Such records shall briefly describe what was done and indicate who did it. Such records may include, but are not limited to: work orders, quality assurance procedures, quality control procedures, operator's standard operating procedures, manufacturer's specifications or their equivalent, and equipment "troubleshooting" guidance.

(d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.19 General Reporting Requirements [326 IAC 2-8-4(3)(C)]

(a) Reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be timely if delivered by any method and received and stamped by IDEM, OAM, on or before the date it is due. [326 IAC 2-5-3]

(c) Unless otherwise specified in this permit any quarterly report shall be submitted within thirty (30) days of the end of the reporting period.

(d) All instances of deviations from any requirements of this permit must be clearly identified in such reports.

(e) Any corrective actions taken as a result of an exceedance of a limit, an excursion from the parametric values, or a malfunction that may have caused excess emissions must be clearly identified in such reports.

(f) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

Stratospheric Ozone Protection

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

(a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156

(b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

(1)	one (1) gel coat spray booth, identified as Booth #1 (ID No. 007), utilizing an air atomized application system, coating marble fixtures using a maximum of 14.36 gallons per hour of gel coat, with dry filters for overspray control, and exhausting at one (1) stack, identified as EP007;
(2)	one (1) gel coat repair spray booth, identified as Booth #2 (ID No. 003), utilizing an air atomized application system, coating marble fixtures using a maximum of 9.10 gallons per hour of gel coat, with dry filters for overspray control, and exhausting at one (1) stack, identified as EP003;
(3)	one (1) open fiberglass marble fixture manufacturing process, consisting of open resin blenders (ID No. 009), utilizing a flowcoating application system, using a maximum of 15.0 gallons per hour of resin, exhausting at one (1) stack, identified as EP009; and
(4)	one (1) closed fiberglass marble panel manufacturing process, consisting of closed resin blenders (ID No. 005), utilizing a flowcoating application system, using a maximum of 15.0 gallons per hour of resin, exhausting at one (1) stack, identified as EP005.

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Volatile Organic Compounds (VOCs) [326 IAC 8-1-6]

The usage of VOC delivered to the applicators, including clean up solvents, in the two (2) gel coat spray booths (ID Nos. 003 and 007), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005) shall be limited such that VOC emissions are limited to 24.0 tons per 365 day period. The VOC emission limit includes emissions from solvent usage as well as emissions from gel coat and resin usage, based on 35% gel coat flash off for a non vapor suppressed (NVS) gel coat process, and 3% resin flash off for a NVS marble casting process. For purposes of determining compliance, one (1) gallon of gel coat is equivalent to 15 gallons of resin based on VOC emissions. Therefore, the Best Available Control Technology (BACT) requirement in 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) does not apply. This limit also renders 326 IAC 2-7 (Part 70 Permit Program) and 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

D.1.2 Hazardous Air Pollutants (HAPs) [326 IAC 2-8-4(1)]

The usage of a single HAP and total HAPs delivered to the applicators, including clean up solvents, in the two (2) gel coat spray booths (ID Nos. 003 and 007), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005) shall be limited such that single HAP and total HAPs emissions are limited to 9.4 and 24.0 tons per 365 day period, respectively. The HAP emission limits include emissions from solvent usage as well as emissions from gel coat and resin usage, based on 35% gel coat flash off for a non vapor suppressed (NVS) gel coat process, and 3% resin flash off for a NVS marble casting process. For purposes of determining compliance, one (1) gallon of gel coat is equivalent to 15 gallons of resin based on styrene emissions. Therefore, the requirements of 326 IAC 2-7 (Part 70 Permit Program) and 326 IAC 2-2 (Prevention of Significant Deterioration) do not apply.

D.1.3 Particulate Matter (PM) [326 IAC 6-3-2(c)]

The PM from the two (2) gel coat spray booths (ID Nos. 003 and 007) shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the two (2) gel coat spray booths (ID Nos. 003 and 007) and their control devices.

Compliance Determination Requirements

D.1.5 Testing Requirements [326 IAC 2-8-5(1)]

Testing of this facility is not specifically required by this permit. However, this does not preclude testing requirements on this facility under 326 IAC 2-1-4(f) and 326 IAC 2-8-4.

D.1.6 Particulate Matter (PM)

The dry filters for PM control shall be in operation at all times when the two (2) gel coat spray booths (ID Nos. 003 and 007) are in operation.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.1.7 Monitoring

(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, daily observations shall be made of the overspray while one or more of the booths are in operation.

(b) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.8 Record Keeping Requirements

(a) To document compliance with Conditions D.1.1 and D.1.2, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken daily and shall be complete and sufficient to establish compliance with the VOC, single HAP and total HAP usage limits established in Conditions D.1.1 and D.1.2.

(1) The amount and VOC and HAP content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;

(2) A log of the dates of use;

(3) The volume weighted VOC content and HAP content of the coatings used for each day;

(4) The cleanup solvent usage for each day;

(5) The total VOC, single HAP and total HAP usage for each day; and

(6) The weight of VOCs and HAPs emitted for each compliance period.

(b) To document compliance with Condition D.1.7, the Permittee shall maintain a log of daily overspray observations, daily and weekly inspections, and those additional inspections prescribed by the Preventative Maintenance Plan.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.9 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.1 and D.1.2 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

SECTION D.2 FACILITY OPERATION CONDITIONS

(5)	one (1) fiberglass marble panel sanding and cutting booth (ID No. 006), utilizing one (1) drum sander, with a cartridge baghouse for particulate matter control, exhausting through one (1) stack, identified as EP006; and
(6)	one (1) fiberglass marble fixture grinding booth (ID No. 008), utilizing hand grinders, with a cartridge baghouse for particulate matter control, exhausting through one (1) stack, identified as EP008.

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the sanding and cutting booth (ID No. 006) shall not exceed 1.4 pounds per hour when operating at a process weight rate of 400 pounds per hour. Also, the allowable PM emission rate from the grinding booth (ID No. 008) shall not exceed 2.1 pounds per hour when operating at a process weight rate of 721 pounds per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.2.2 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.2.3 Testing Requirements [326 IAC 2-8-5(1)]

During the period between 36 and 48 months after issuance of this permit, the Permittee shall perform PM and PM-10 testing on the fiberglass marble fixture grinding booth stack (ID No. EP008) utilizing Methods 5 or 17, per 40 CFR Part 60 Appendix A, and Methods 201 or 201a and Method 202, per 40 CFR Part 51 Appendix M, or as approved by the Commissioner. This test shall be repeated at least once every five years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.2.4 Visible Emissions Notations

(a) Daily visible emission notations of the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008) stack exhausts shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

D.2.5 Parametric Monitoring

The Permittee shall record the total static pressure drop across each of the baghouses used in conjunction with the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008), at least once per day when the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008) are in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across each of the two (2) baghouses shall be maintained within the range of 1.0 and 3.0 inches of water or a range established during the latest stack test. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

D.2.6 Broken Bag or Failure Detection

In the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced.

(b) Based upon the findings of the inspection, any additional corrective actions will be devised within eight (8) hours of discovery and will include a timetable for completion.

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.2.7 Record Keeping Requirements

(a) To document compliance with Condition D.2.4, the Permittee shall maintain records of daily visible emission notations of the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008) stack exhausts.

(b) To document compliance with Condition D.2.5, the Permittee shall maintain the following:

(1) Daily records of the following operational parameters during normal operation:

(A) Inlet and outlet differential static pressure; and

(B) Cleaning cycle: frequency and differential pressure.

(2) Documentation of all corrective actions implemented, per event .

(3) Operation and preventive maintenance logs, including work purchases orders,

shall be maintained.

(4) Quality Assurance/Quality Control (QA/QC) procedures.

(5) Operator standard operating procedures (SOP).

(6) Manufacturer's specifications or its equivalent.

(7) Equipment "troubleshooting" contingency plan.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3 FACILITY OPERATION CONDITIONS

(7)	one (1) No. 2 distillate fuel oil fired boiler (ID No. 004), rated at 2.05 million (MM) British thermal units (Btu) per hour, exhausting through one (1) stack, identified as EP004.

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.3.1 Particulate Matter (PM) [326 IAC 6-2]

Pursuant to 326 IAC 6-2-2 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from the 2.05 MMBtu per hour heat input boiler shall be limited to 0.6 pounds per mmBtu heat input.

Compliance Determination Requirement

D.3.2 Testing Requirements [326 IAC 2-8-5(1)]

Testing of this facility is not specifically required by this permit. However, this does not preclude testing requirements on this facility under 326 IAC 2-1-4(f) and 326 IAC 2-8-4(1).

State Form 47738 (5-96)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Century Marble Company, Inc.
Source Address: 3525 State Road 32 West, Westfield, Indiana 46074
Mailing Address: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP No.: F057-8653-00045

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

9 Annual Compliance Certification Letter

9 Deviation Occurrence Reporting Form (For Control Equipment Monitoring)

9 Deviation Occurrence Reporting Form (For Material Usage, Quality, Etc.)

9 Test Result (specify) _____

9 Report (specify) _____

9 Notification (specify) _____

9 Other (specify) _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

State Form 47739 (5-96)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
DEVIATION OCCURRENCE REPORT

(For Control Equipment Monitoring Only)

Source Name: Century Marble Company, Inc.
Source Address: 3525 State Road 32 West, Westfield, Indiana 46074
Mailing Address: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP No.: F057-8653-00045

If a deviation has occurred, a separate copy of this report must be submitted for **each** monitoring device on all control equipment listed in this permit. Attach a signed certification to complete this report.
Stack/Vent ID:
Control Equipment: (ex: thermal oxidizer, scrubber, baghouses)
Type of Parameter Monitored: (ex: temperature, pressure drop, efficiency)
9 Continuously **9** Periodically, at a frequency of:
Parameter Operating Restrictions/Range: (ex: 1,400^{0}F, 2-4 psi pressure drop)
Report Covers From: To: (date: month/day/yr)
9 Summary of Deviations from the Parameter Restriction/Range During the Monitoring Period are Identified Below. Complete Records Maintained at the Facility.

	For Parameter Recorded Continuously	For Parameter Recorded Periodically
Total Unit Operating Time		
Total Time of Deviations (Identify All Deviations)		
Percent of Time Indicating Deviations ([2]/[1]x100)		

Date of Deviation	Start/Stop Time of Deviation (Continuous Monitoring Only)	Actual Value Recorded	Reason for Deviation & Corrective Action Taken

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
DEVIATION OCCURRENCE REPORT

Source Name: Century Marble Company, Inc.
Source Address: 3525 State Road 32 West, Westfield, Indiana 46074
Mailing Address: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP No.: F057-8653-00045

If a deviation has occurred a separate copy of this report must be submitted for **each** material type, quantity usage and operation limitation (except control equipment monitoring) listed in this permit . Attach a signed certification to complete this report.

Stack/Vent ID:
Equipment/Operation:
Parameter Subject to Material Type, Quantity Usage or Operation Limitations Specified in the Permit: (ex: 2500 lb/day, 300 hours/yr, 5000 gallons/month)
Determination Period for this Parameter: (ex: 365-day rolling sum, fixed monthly rate)
9 Permit Has No Rate Limitations for this Parameter.
Content Restriction for this Parameter: (ex: maximum of 40% VOC in inks, 0.5% sulfur content)
Demonstration Method for this Parameter: (ex: MSDS, Supplier, material sampling & analysis)
9 Permit Has No Content Limitations for this Parameter.
Comments:

OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION

FESOP Quarterly Report

Source Name: Century Marble Company, Inc.
Source Address: 3525 State Road 32 West, Westfield, Indiana 46074
Mailing Address: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP No.: F057-8653-00045
Facility: the two (2) gel coat spray booths (ID Nos. 003 and 007), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005)
Parameter: VOC
Limit: The usage of VOC delivered to the applicators, including clean up solvents, shall be limited such that VOC emissions are limited to 24.0 tons per 365 day period. The VOC emission limit includes emissions from solvent usage as well as emissions from gel coat and resin usage, based on 35% gel coat flash off for a non vapor suppressed (NVS) gel coat process, and 3% resin flash off for a NVS marble casting process. For purposes of determining compliance, one (1) gallon of gel coat is equivalent to 15 gallons of resin based on VOC emissions.

Month: _____ **Year:** _____

Day	VOC Emissions This Day (tons)	VOC Emissions Last 365 Day Period (tons)	Day	VOC Emissions This Day (tons)	VOC Emissions Last 365 Day Period (tons)
1			17		
2			18		
3			19		
4			20		
5			21		
6			22		
7			23		
8			24		
9			25		
10			26		
11			27		
12			28		
13			29		
14			30		
15			31		
16			Total		

9 No deviation occurred in this month.
9 Deviation/s occurred in this month.
Deviation has been reported on: _____

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION

FESOP Quarterly Report

Source Name: Century Marble Company, Inc.
Source Address: 3525 State Road 32 West, Westfield, Indiana 46074
Mailing Address: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP No.: F057-8653-00045
Facility: the two (2) gel coat spray booths (ID Nos. 003 and 007), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005)
Parameter: Single HAP and Total HAPs
Limit:

The usage of a single HAP and total HAPs delivered to the applicators, including clean up solvents, shall be limited such that single HAP and total HAPs emissions are limited to 9.4 and 24.0 tons per 365 day period, respectively. The HAP emission limits include emissions from solvent usage as well as emissions from gel coat and resin usage, based on 35% gel coat flash off for a non vapor suppressed (NVS) gel coat process, and 3% resin flash off for a NVS marble casting process. For purposes of determining compliance, one (1) gallon of gel coat is equivalent to 15 gallons of resin based on styrene emissions.

Month: _____ **Year:** _____

Day	Single HAP Emissions This Day (tons)	Single HAP Emissions Last 365 Day Period (tons)	Total HAPs Emissions This Day (tons)	Total HAPs Emissions Las 365 Day Period (tons)	Day	Single HAP Emissions This Day (tons)	Single HAP Emissions Last 365 Day Period (tons)	Total HAPs Emissions This Day (tons)	Total HAPs Emissions Las 365 Day Period (tons)
1					17				
2					18				
3					19				
4					20				
5					21				
6					22				
7					23				
8					24				
9					25				
10					26				
11					27				
12					28				
13					29				
14					30				
15					31				
16					Total				

9 No deviation occurred in this month.
9 Deviation/s occurred in this month.
Deviation has been reported on: _____

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____
Phone: _____

Indiana Department of Environmental Management
Office of Air Management

Technical Support Document (TSD) for a Federally Enforceable State Operating Permit (FESOP)

Source Background And Description

Source Name:	**Century Marble Company, Inc.**
Source Location:	**3525 State Road 32 West, Westfield, Indiana 46074**
County:	**Hamilton**
SIC Code:	**3088**
Operation Permit No.:	**F057-8653-00045**
Permit Reviewer:	**Trish Earls/EVP**

The Office of Air Management (OAM) has reviewed a Federally Enforceable State Operating Permit (FESOP) application from Century Marble Company, Inc. relating to the operation of a stationary fiberglass marble fixtures and panels manufacturing operation.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

(1) one (1) gel coat spray booth, identified as Booth #1 (ID No. 007), utilizing an air atomized application system, coating marble fixtures using a maximum of 14.36 gallons per hour of gel coat, with dry filters for overspray control, and exhausting at one (1) stack, identified as EP007;
(2) one (1) gel coat repair spray booth, identified as Booth #2 (ID No. 003), utilizing an air atomized application system, coating marble fixtures using a maximum of 9.10 gallons per hour of gel coat, with dry filters for overspray control, and exhausting at one (1) stack, identified as EP003;
(3) one (1) open fiberglass marble fixture manufacturing process, consisting of open resin blenders (ID No. 009), utilizing a flowcoating application system, using a maximum of 15.0 gallons per hour of resin, exhausting at one (1) stack, identified as EP009;
(4) one (1) closed fiberglass marble panel manufacturing process, consisting of closed resin blenders (ID No. 005), utilizing a flowcoating application system, using a maximum of 15.0 gallons per hour of resin, exhausting at one (1) stack, identified as EP005;
(5) one (1) fiberglass marble panel sanding and cutting booth (ID No. 006), utilizing one (1) drum sander, with a cartridge baghouse for particulate matter control, exhausting through one (1) stack, identified as EP006; and
(6) one (1) fiberglass marble fixture grinding booth (ID No. 008), utilizing hand grinders, with a cartridge baghouse for particulate matter control, exhausting through one (1) stack, identified as EP008.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(20):

(1) one (1) No. 2 distillate fuel oil fired boiler (ID No. 004), rated at 2.05 million (MM) British thermal units (Btu) per hour, exhausting through one (1) stack, identified as EP004;

(2) two (2) polyester resin storage tanks (ID Nos. 00291 and 00146), each with a storage capacity of 5,880 gallons, each exhausting through one (1) stack, identified as EP001 and EP002, respectively;
(3) one (1) fiberglass marble fixture buffing booth; and
(4) one (1) auxiliary electric pump for fire protection.

Existing Approvals

This source has been operating under the following approvals:

(1) CP 057-5071-00045, issued on June 19, 1996.

Enforcement Issue

There are no Enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the FESOP be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP application for the purposes of this review was received on June 4, 1997.

Emissions Calculations

See Appendix A: Emissions Calculations for detailed calculations (6 pages)

Potential Emissions

Pursuant to 326 IAC 1-2-55, Potential Emissions are defined as “emissions of any one (1) pollutant which would be emitted from a facility, if that facility were operated without the use of pollution control equipment unless such control equipment is necessary for the facility to produce its normal product or is integral to the normal operation of the facility.”

Pollutant	Potential Emissions (tons/year)
PM	3,898.63
PM-10	3,898.57
SO_2	4.55
VOC	211.50
CO	0.32
NO_x	1.28

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP	Potential Emissions (tons/year)
Styrene	170.87
Toluene	0.70
Xylene	0.07
Cumene	0.07
TOTAL	171.70

See attached spreadsheets for detailed calculations (6 pages).

(a) The potential emissions (as defined in the Indiana Rule) of particulate matter with an aerodynamic diameter equal to or less than 10 microns (PM-10) and volatile organic compounds (VOC) are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(b) The potential emissions (as defined in Indiana Rule) of any single HAP is equal to or greater than ten (10) tons per year and the potential emissions (as defined in Indiana Rule) of a combination HAPs is greater than or equal to twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(c) This source, otherwise required to obtain a Title V permit, has agreed to accept a permit with federally enforceable limits that restrict its PTE to below the Title V emission levels. Therefore, this source will be issued a Federally Enforceable State Operating Permit (FESOP), pursuant to 326 IAC 2-8.

(d) Fugitive Emissions
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter emissions are not counted toward determination of PSD and Emission Offset applicability.

Limited Potential To Emit

(a) The source has accepted a federally enforceable limit on potential to emit VOC of 24 tons per year, consisting of:

(i) 11.63 tons per year for the significant activities; and

(ii) 0.02 tons per year for the insignificant activities.

b) The source has accepted a limit on potential to emit of 9.4 tons per year for any single HAP and 24 tons per year for any combination of HAPs.

(c) PM-10 emissions from the fiberglass marble panel sanding and cutting booth and the fiberglass marble fixture grinding booth are controlled by a cartridge baghouse to 1.10 tons per year. PM-10 emissions from the two (2) gel coat spray booths are controlled to 4.87 tons per year.

(d) The table below summarizes the total limited potential to emit of the significant and insignificant emission units.

	Limited Potential to Emit (tons/year)							
Process/ facility	PM	PM-10	SO_2	VOC	CO	NO_X	Single HAP	Total HAPs
Surface Coating	4.87	4.87	0.00	11.63	0.00	0.00	9.40	9.45
Sanding and Grinding	1.10	1.10	0.00	0.00	0.00	0.00	0.00	0.00
Insignificant Activities	0.13	0.07	4.55	0.02	0.32	1.28	0.00	0.00
Total Emissions	6.10	6.04	4.55	11.65	0.32	1.28	9.40	9.45

Attached Tables A to C summarize the permit conditions and requirements.

County Attainment Status

The source is located in Hamilton County.

Pollutant	Status
TSP	attainment
PM-10	attainment
SO_2	attainment
NO_2	attainment
Ozone	attainment
CO	attainment
Lead	attainment

(a) Volatile organic compounds (VOC) and oxides of nitrogen are precursors for the formation of ozone. Therefore, VOC and NO_X emissions are considered when evaluating the rule applicability relating to the ozone standards. Hamilton County has been designated as attainment or unclassifiable for ozone.

Federal Rule Applicability

(a) There are no New Source Performance Standards (326 IAC 12) applicable to this source.

(b) The 2.05 MMBtu per hour No. 2 distillate fuel oil fired boiler is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.40, Subpart D), because the construction date of the boiler, constructed in 1970, predates the applicability date of this rule, August 17, 1971, and the capacity of the boiler is less than 250 MMBtu per hour. Therefore, the requirements of this rule do not apply.

(c) The two (2) 5,880 gallon polyester resin storage tanks are not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.110b, Subpart Kb), because each of the tanks has a storage capacity of less than $40m^3$.

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-6 (Emission Reporting)

This source is not subject to 326 IAC 2-6 (Emission Reporting), which would require the source to submit an annual emission statement. Pursuant to this rule, any physical or operational limitation on the capacity of the source to emit a pollutant, including air pollution equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is enforceable. This source has accepted federally enforceable operation conditions which limit emissions of volatile organic compounds to below 100 tons per year and PM-10 emissions are controlled by baghouses to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-6 do not apply.

326 IAC 2-8-4 (FESOP)

This source is subject to 326 IAC 2-8-4 (FESOP). Pursuant to this rule, the source will limit single HAP usage delivered to the applicators, including clean up solvents, in each of the gel coat spray booths (ID Nos. 007 and 003), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005) such that single HAP emissions are limited to 9.4 tons per year. This limit on single HAP usage will automatically limit VOC and total HAP usage delivered to the applicators, including clean up solvents, in each of the gel coat spray booths (ID Nos. 007 and 003), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005) such that VOC and total HAP emissions are limited to 11.63 and 9.45 tons per year, respectively. These limitations will render 326 IAC 2-7 (Part 70 Permit Program) and 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:

(a) Visible emissions shall not exceed an average of forty percent (40%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4,

(b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

State Rule Applicability - Individual Facilities

326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)

The 2.05 MMBtu per hour No. 2 distillate fuel oil fired boiler is subject to 326 IAC 6-2 because it is located in Hamilton County and was existing prior to September 21, 1983. Pursuant to 326 IAC 6-2-2, the particulate matter (PM) emissions shall be limited to 0.78 pounds per MMBtu heat input based on the following equation:

$$Pt = 0.87/Q^{0.16}$$

where: Pt = maximum allowable pounds of PM emitted per MMBtu heat input
Q = total source maximum heat input in MMBtu per hour

$Pt = 0.87/2.05^{0.16} = 0.78$ pounds per MMBtu

However, 326 IAC 6-2-2(a) truncates the maximum allowable pounds of PM per MMBtu to 0.6 for Q < 10 MMBtu per hour. Therefore, the 2.05 MMBtu per hour boiler shall be limited to 0.6 pounds PM per MMBtu heat input. The 2.05 MMBtu per hour boiler emits 0.01 pounds PM per MMBtu heat input, therefore, the boiler will comply with the limitation of 326 IAC 6-2-2. The compliance calculation is as follows:

Potential PM emissions = 0.13 tons/yr * 2000 lbs/ton / 8760 hrs/yr = 0.03 lbs/hr
Potential PM emissions = 0.03 lbs/hr / 2.05 MMBtu/hr = 0.01 lbs/MMBtu (will comply)

326 IAC 6-3-2 (Process Operations)

The fiberglass marble panel sanding and cutting booth (ID No. 006) and the fiberglass marble fixture grinding booth (ID No. 008) are subject to particulate emission limitations under 326 IAC 6-3-2. Pursuant to this rule, particulate emissions from the sanding and cutting booth and the grinding booth shall be limited to 1.39 and 2.07 pounds per hour, respectively. Allowable emissions were calculated as follows:

Equation from 326 IAC 6-3-2: $E = 4.10 * (P^{0.67})$

(a) **Drum Sander in Sanding and Cutting Booth**
Process Weight, P = 0.20 tons/hr
Allowable Emission Rate, E = 1.39 lbs/hr = 6.11 tons/yr

(b) **Hand Grinders in Grinding Booth**
Process Weight, P = 0.36 tons/hr
Allowable Emission Rate, E = 2.07 lbs/hr = 9.07 tons/yr

Potential controlled emissions from the sanding and cutting booth and the grinding booth are 0.22 and 0.88 tons per year, respectively. Therefore, the sanding and cutting booth and the grinding booth will comply with 326 IAC 6-3-2.

(c) The particulate matter (PM) overspray from the two (2) gel coat spray booths (ID Nos. 003 and 007) shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

The two (2) gel coat spray booths will comply with 326 IAC 6-3-2 using dry filters for overspray control.

326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations)

The 2.05 MMBtu per hour No. 2 distillate fuel oil fired boiler is not subject to the provisions of 326 IAC 7-1.1-2, because potential emissions of sulfur dioxide (SO_2) are less than 25 tons per year and less than 10 pounds per hour.

326 IAC 8-1-6 (New Facilities, General Reduction Requirements)

The fiberglass marble fixtures and panels manufacturing operation is not subject to the provisions of 326 IAC 8-1-6. This rule requires all facilities constructed after January 1, 1980, which have potential VOC emission rates of 25 or more tons per year, and which are not otherwise regulated by other provisions of 326 IAC 8, to reduce VOC emissions using Best Available Control Technology (BACT). This source has accepted federally enforceable operation conditions which limit resin, gel coat and solvent usage in the two (2) gel coat spray booths (ID Nos. 007 and 003), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005) such that associated emissions of a single HAP are limited at 9.4 tons per year, based on 35% gel coat flash off for a non vapor suppressed (NVS) gel coat process, and 3% resin flash off for a NVS marble casting process, in order to qualify for a FESOP under 326 IAC 2-8. This limitation automatically limits emissions of VOC and any combination of HAPs to 11.6 and 9.5 tons per year, respectively. Potential limited VOC emissions will be less than 25 tons per year, therefore, the requirements of 326 IAC 8-1-6 do not apply. This VOC limitation will also render 326 IAC 2-7 and 326 IAC 2-2 not applicable.

No other Article 8 rules are applicable to this source.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAM, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in permit Section D are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in permit Section D. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

(1) The two (2) gel coat spray booths (ID Nos. 007 and 003), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005) have applicable compliance monitoring conditions as specified below:

(a) Total VOC usage shall be limited such that VOC emissions do not exceed 24.0 tons per 365 day period, rolled on a daily basis;

(b) Total HAP usage shall be limited such that total HAP emissions do not exceed 24.0 tons per 365 day period, rolled on a daily basis, and single HAP usage shall be limited such that single HAP emissions do not exceed 9.4 tons per 365 day period, rolled on a daily basis; and

(c) Quarterly reports shall be submitted to OAM Compliance Section. These reports shall include total daily VOC, single HAP and total HAP emissions for the two (2) gel coat spray booths (ID Nos. 007 and 003), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005).

These monitoring requirements are necessary to ensure that the requirements of 326 IAC 8-1-6 (New Facilities, General Reduction Requirements) do not apply, and to ensure compliance with 326 IAC 2-8 (Federally Enforceable State Operating Permit Program).

(2) The fiberglass marble panel sanding and cutting booth (ID No. 006) and the fiberglass marble fixture grinding booth (ID No. 008) have applicable compliance monitoring conditions as specified below:

(a) Daily visible emissions notations of each of the stack exhausts of the two (2) baghouses controlling particulate emissions from the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008) shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

(b) The Permittee shall record the total static pressure drop across each of the two (2) baghouses controlling the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008) at least once daily when the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008) are in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across each of the two (2) baghouses shall be maintained within the range of 1.0 to 3.0 inches of water or a range established during the latest stack test. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

These monitoring conditions are necessary because the baghouses for the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008) must operate properly to ensure compliance with 326 IAC 6-3 (Process Operations) and 326 IAC 2-8 (FESOP).

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 187 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) FESOP Application Form GSD-08.

(a) This source has accepted federally enforceable air toxic emission limits of 9.4 tons per year for any single HAP and 24 tons per year for any combination of HAPs.

Conclusion

The operation of this stationary fiberglass marble fixtures and panels manufacturing operation will be subject to the conditions of the attached proposed **FESOP No. F057-8653-00045.**

Table A

Stack/Vent ID: EP003, EP005, EP007, & EP009				
Stack/Vent Dimensions: Ht: 25' Dia: 1'-3' Temp: 70ºF Flow: 100-8,000 acfm				
Emission Units: two (2) gel coat spray booths, open resin blenders, and closed resin blenders				
Date of Construction: 1/15/96 and 6/15/97				
Alternative Scenario: N/A				
Pollution Control Equipment: dry filters				
General Description of Requirement:	VOC emission limitation	Single HAP emission limitation	Total HAP emission limitation	
Numerical Emission Limit:	24.0 tons/yr	9.4 tons/yr	24.0 tons/yr	
Regulation/Citation:	326 IAC 2-8	326 IAC 2-8	326 IAC 2-8	
Compliance Demonstration:	Record keeping and Reporting	Record keeping and Reporting	Record keeping and Reporting	
PERFORMANCE TESTING	N/A	N/A	N/A	
Parameter/Pollutant to be Tested:				
Testing Method/Analysis:				
Testing Frequency/Schedule:				
Submittal of Test Results:				
COMPLIANCE MONITORING				
Monitoring Description:	record keeping and reporting	record keeping and reporting	record keeping and reporting	
Monitoring Method:				
Monitoring Regulation/Citation:				
Monitoring Frequency:	daily	daily	daily	
RECORD KEEPING				
Parameter/Pollutant to be Recorded:	VOC emissions per 365 day period	Single HAP emissions per 365 day period	Total HAP emissions per 365 day period	
Recording Frequency:	daily	daily	daily	
Submittal Schedule of Reports:	quarterly	quarterly	quarterly	
REPORTING REQUIREMENTS				
Information in Report:	VOC emissions per 365 day period	Single HAP emissions per 365 day period	Total HAP emissions per 365 day period	
Reporting Frequency/Submittal:	quarterly	quarterly	quarterly	
Additional Comments:				

Table B

Stack/Vent ID: EP006				
Stack/Vent Dimensions:	**Ht: N/A Dia: 1'x12'**		**Temp: 70ºF Flow: 3,900 acfm**	
Emission Unit: Sanding and Cutting Booth				
Date of Construction: 1/15/96				
Alternative Scenario: N/A				
Pollution Control Equipment: Baghouse				
General Description of Requirement:	PM emission limit, visibility observations and baghouse inspections			
Numerical Emission Limit:	PM and PM-10 limited to 1.4 pounds per hour			
Regulation/Citation:	326 IAC 6-3 and 326 IAC 2-8-4			
Compliance Demonstration:	inspection			
PERFORMANCE TESTING	N/A			
Parameter/Pollutant to be Tested:				
Testing Method/Analysis:				
Testing Frequency/Schedule:				
Submittal of Test Results:				
COMPLIANCE MONITORING				
Monitoring Description:	quarterly inspection of all bags controlling operation, replacement of all defective bags, and daily normal visibility			
Monitoring Method:	inspection and observations by trained personnel			
Monitoring Regulation/Citation:	326 IAC 6-3 and 326 IAC 2-8-5			
Monitoring Frequency:	quarterly and daily			
RECORD KEEPING				
Parameter/Pollutant to be Recorded:	inspection results, number of bags replaced & visibility			
Recording Frequency:	quarterly and daily			
Submittal Schedule of Reports:	when requested by OAM			
REPORTING REQUIREMENTS				
Information in Report:	N/A			
Reporting Frequency/Submittal:	N/A			
Additional Comments:	none			

Table C

Stack/Vent ID: EP008				
Stack/Vent Dimensions: Ht: 25' Dia: 3' Temp: 70ºF Flow: 15,600 acfm				
Emission Unit: Grinding Booth				
Date of Construction: 1/15/96				
Alternative Scenario: N/A				
Pollution Control Equipment: Baghouse				
General Description of Requirement:	PM emission limit, visibility observations and baghouse inspections			
Numerical Emission Limit:	PM and PM-10 limited to 2.1 pounds per hour			
Regulation/Citation:	326 IAC 6-3 and 326 IAC 2-8-4			
Compliance Demonstration:	inspection			
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:	particulate matter and particulate matter less than or equal to 10 microns			
Testing Method/Analysis:	Method approved by the Commissioner			
Testing Frequency/Schedule:	between 36 and 48 months after FESOP issuance			
Submittal of Test Results:	within 45 days of testing			
COMPLIANCE MONITORING				
Monitoring Description:	quarterly inspection of all bags controlling operation, replacement of all defective bags, and daily normal visibility			
Monitoring Method:	inspection and observations by trained personnel			
Monitoring Regulation/Citation:	326 IAC 6-3 and 326 IAC 2-8-5			
Monitoring Frequency:	quarterly and daily			
RECORD KEEPING				
Parameter/Pollutant to be Recorded:	inspection results, number of bags replaced & visibility			
Recording Frequency:	quarterly and daily			
Submittal Schedule of Reports:	when requested by OAM			
REPORTING REQUIREMENTS				

Information in Report:	N/A			
Reporting Frequency/Submittal:	N/A			
Additional Comments:	none			

Indiana Department of Environmental Management
Office of Air Management

Addendum to the Technical Support Document for Federally Enforceable State Operating Permit (FESOP)

Source Name:	**Century Marble Company, Inc.**
Source Location:	**3525 State Road 32 West, Westfield, Indiana 46074**
SIC Code:	**3088**
County:	**Hamilton**
Operation Permit No.:	**F057-8653-00045**
Permit Reviewer:	**Trish Earls/EVP**

On August 23, 1997, the Office of Air Management (OAM) had a notice published in the Noblesville Daily Ledger, Noblesville, Indiana, stating that Century Marble Company, Inc. had applied for a Federally Enforceable State Operating Permit (FESOP) to operate a fiberglass marble fixtures and panels manufacturing operation. The notice also stated that OAM proposed to issue a FESOP for this operation and provided information on how the public could review the proposed FESOP and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this FESOP should be issued as proposed.

Upon further review, the OAM has decided to make the following changes to the Technical Support Document (TSD) and the FESOP:

1) The 2.05 million (MM) British thermal units (Btu) per hour No. 2 distillate fuel oil fired boiler (ID No. 004), which was listed as item (1) of the Insignificant Activities section of the TSD, is now listed as item (7) of the Permitted Emission Units and Pollution Control Equipment section of the TSD. This is because its heat input rating is above the fuel oil fired combustion source 2.0 MMBtu per hour rating threshold for Insignificant Activities. Therefore, it should not be considered as an Insignificant Activity. The Limited Potential to Emit table of the TSD, page 4 of 12, has been revised so that the emissions from the boiler are not listed as Insignificant Activity emissions. The Emissions Calculations summary table, page 1 of 6 TSD Appendix A, has also been revised so that the boiler emissions are no longer listed as Insignificant Activity emissions. Sections A.2 and A.3 of the FESOP, page 5 of 36, have been revised so that the boiler is now listed in section A.2 and not in section A.3. The Limited Potential to Emit section of the TSD now reads as follows:

Limited Potential To Emit

(a) The source has accepted a federally enforceable limit on potential to emit VOC of 24 tons per year, consisting of:

(i) **11.65** tons per year for the significant activities. ~~; and~~

~~(ii) 0.02 tons per year for the insignificant activities.~~

b) The source has accepted a limit on potential to emit of 9.4 tons per year for any single HAP and 24 tons per year for any combination of HAPs.

(c) PM-10 emissions from the fiberglass marble panel sanding and cutting booth and the fiberglass marble fixture grinding booth are controlled by a cartridge baghouse to 1.10 tons per year. PM-10 emissions from the two (2) gel coat spray booths are controlled to 4.87 tons per year.

(d) The table below summarizes the total limited potential to emit of the significant and insignificant emission units.

	Limited Potential to Emit (tons/year)							
Process/ facility	PM	PM-10	SO_2	VOC	CO	NO_X	Single HAP	Total HAPs
Surface Coating	4.87	4.87	0.00	11.63	0.00	0.00	9.40	9.45
Sanding and Grinding	1.10	1.10	0.00	0.00	0.00	0.00	0.00	0.00
Combustion	0.13	0.07	4.55	0.02	0.32	1.28	0.00	0.00
Total Emissions	6.10	6.04	4.55	11.65	0.32	1.28	9.40	9.45

Attached Tables A to C summarize the permit conditions and requirements.

2) Part (b) of condition D.1.7 of the FESOP, page 26 of 36, has been removed because these inspections, which include weekly rooftop inspections for the presence of overspray, are unnecessary since daily observations of the overspray are already required in part (a) of condition D.1.7 and rooftop inspections may compromise the safety of the plant employees. Condition D.1.7 has been revised as follows:

D.1.7 Monitoring

~~(a) Daily inspections shall be performed to verify the placement, integrity and particle~~ loading of the filters. To monitor the performance of the dry filters, daily observations shall be made of the overspray while one or more of the booths are in operation.

~~(b) Weekly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when an overspray emission, evidence of overspray emission, or other abnormal emission is observed.~~

(**b**) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

3) Condition D.2.3 of the FESOP, page 28 of 36, has been revised so that the condition specifies that testing for PM and PM-10 is only required for the fiberglass marble fixture grinding booth (ID No. 008) since potential uncontrolled PM and PM-10 emissions from this booth are each greater than 40% of the source wide potential to emit of these pollutants. Condition D.2.3 has been revised as follows:

D.2.3 Testing Requirements [326 IAC 2-8-5(1)]

During the period between 36 and 48 months after issuance of this permit, the Permittee shall perform PM and PM-10 testing **on the fiberglass marble fixture grinding booth stack (ID No. EP008)** utilizing Methods 5 or 17, per 40 CFR Part 60 Appendix A, and Methods 201 or 201a and Method 202, per 40 CFR Part 51 Appendix M, or as approved by the Commissioner. This test shall be repeated at least once every five years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10.

Appendix A: Emission Calculations
Form DD: Reinforced Plastics and Composites
Fiberglass Processes

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
CP: F057-8653
Plt ID: 057-00045
Reviewer: Trish Earls
Date: July 14, 1997

Material (as applied)	Process	Density (lb/gal)	Weight % Volatiles	Max. Gallons per hour	Pound VOC per hour	Pounds VOC per day	Tons of VOC per Year	PM tons per year	Emission Factor (Flash Off)	Transfer Efficiency
State Potential Emissions (uncontrolled):										
Gel Coat	Booth #1	9.12	48.00%	14.36	22.01	528.19	96.40	149.18	35%	50%
S-0280 Solvent	Booth #1	8.86	100.00%	0.20	1.80	43.20	7.88	0.00	100%	100%
Gel Coat	Booth #2	9.12	48.00%	9.10	13.94	334.66	61.07	94.52	35%	50%
S-0280 Solvent	Booth #2	8.86	100.00%	0.02	0.20	4.80	0.88	0.00	100%	100%
Resin	Open Resin Blenders	10.00	34.00%	15.00	1.53	36.72	6.70	0.00	3%	100%
TR-210 Release Agent	Open Resin Blenders	7.32	35.00%	0.01	0.04	0.84	0.15	0.00	100%	100%
S-0280 Solvent	Open Resin Blenders	8.86	100.00%	0.41	3.60	86.40	15.77	0.00	100%	100%
Resin	Closed Resin Blenders	10.00	34.00%	15.00	1.53	36.72	6.70	0.00	3%	100%
TR-210 Release Agent	Closed Resin Blenders	7.32	35.00%	0.01	0.04	0.84	0.15	0.00	100%	100%
S-0280 Solvent	Closed Resin Blenders	8.86	100.00%	0.41	3.60	86.40	15.77	0.00	100%	100%
Total State Potential Emissions:					**48.28**	**1158.77**	**211.48**	**243.70**		

	Material Usage Limitation (%)	Control Efficiency VOC	Control Efficiency PM	Controlled VOC Pounds per Hour	Controlled VOC Pounds per Day	Controlled VOC Tons per Year	Controlled PM tons per Year
Federal Potential Emissions (controlled):							
Total Federal Potential Emissions:	5.50%	**0.00%**	**98.00%**	**2.66**	**63.74**	**11.63**	**4.87**

NOTE:
At a 5.50% annual usage limitation, VOC emissions will be limited to less than 24 tons per year, therefore, the requirements of 326 IAC 2-7 and 326 IAC 8-1-6 do not apply.
Emissions from gel coat and resin catalyst are negligible based on manufacturer's data.

METHODOLOGY
Potential VOC Pounds per Hour = Density (lb/gal) * Weight % Volatiles * Gal per Hour (gal/hr) * Emission factor
Potential VOC Pounds per Day = Density (lb/gal) * Weight % Volatiles * Gal per Hour (gal/hr) * (24 hrs / 1 day) * Emission factor
Potential VOC Tons per Year = Density (lb/gal) * Weight % Volatiles * Gal per Hour (gal/hr) * (8760 hr/yr) * (1 ton / 2000 lbs) * Emission factor
Particulate Potential Tons per Year = (gal/hr) * (lbs/gal) * (1 - Weight % Volatiles) * (1 - Transfer efficiency) * (8760 hr/yr) * (1 ton / 2000 lbs)
Total = Sum of all materials and solvents used
Emission Factor for Marble Casting NVS is 3%, VS is 2%
Emission Factor for Hand and Spray Layup of gelcoat NVS is 35%, VS is 25%
Emission Factors are from AP42, Fifth Edition (January 1995), Table 4.4-2
NVS = Non-vapor supressed resin
VS = Vapor supressed resin

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors
#1 and #2 Fuel Oil

Company Name: **Century Marble Company, Inc.**
Address, City IN Zip: **3525 State Road 32 West, Westfield, Indiana 46074**
FESOP: **F057-8653**
Plt ID: **057-00045**
Reviewer: Trish Earls
Date: July 14, 1997

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur
2.05	128.271429	0.5

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	2.0	1.1	71 *(142.0S)*	20.0	0.34	5.0
Potential Emission in tons/yr	0.13	0.07	4.55	1.28	0.02	0.32

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-2 and 1.3-4 (SCC 1-03-005-01/02/03)

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Appendix A: Process Particulate Emissions

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
CP: F057-8653
Plt ID: 057-00045
Reviewer: Trish Earls
Date: July 14, 1997

Potential Uncontrolled Emissions (tons/year)

Baghouse ID	Process	No. of Units	Grain Loading per Actual Cubic Foot of Outlet Air	Air to Cloth Ratio Air Flow (acfm/ft²)	Total Filter Area (ft²)	Control Efficiency	Total (tons/yr)
006	Drum Sander	1	0.00150	5.9	660.0	99.97%	730.96
008	Hand Grinders	1	0.00150	5.9	2640.0	99.97%	2923.84

Total Emissions Based on Rated Capacity at 8,760 Hours/Year **3654.80**

Controlled Emissions (tons/year)

Baghouse ID	Process	No. of Units	Grain Loading per Actual Cubic Foot of Outlet Air	Air to Cloth Ratio Air Flow (acfm/ft²)	Total Filter Area (ft²)	Control Efficiency	Total (tons/yr)
006	Drum Sander	1	0.00150	5.9	660.0	99.97%	0.22
008	Hand Grinders	1	0.00150	5.9	2640.0	99.97%	0.88

Total Emissions Based on Rated Capacity at 8,760 Hours/Year and source controls **1.10**

Allowable Emissions Calculation (per 326 IAC 6-3-2)

Drum Sander

Equation from 326 IAC 6-3-2: E = 4.10 * (P^0.67)
Process Wt. Rate (tons/hr), P = 0.20
Allowable Emission Rate, E = 1.39 lbs/hr
= 6.11 tons/yr

Hand Grinders

Equation from 326 IAC 6-3-2: E = 4.10 * (P^0.67)
Process Wt. Rate (tons/hr), P = 0.36
Allowable Emission Rate, E = 2.07 lbs/hr
= 9.07 tons/yr

Methodology:

Potential Uncontrolled Emissions:

Emissions (tons/yr) = No. Units * Loading (grains/acf) * Air/Cloth Ratio (acfm/ft²) * Filter Area (ft²) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs * 1/(1-Control Efficiency)

Controlled Emissions:

Emissions (tons/yr) = No. Units * Loading (grains/acf) * Air/Cloth Ratio (acfm/ft²) * Filter Area (ft²) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs * 1/(1-Control Efficiency)

Appendix A: Emission Calculations
HAP Emissions - Potential To Emit

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP: F057-8653
Plt ID: 057-00045
Reviewer: Trish Earls
Date: July 14, 1997

Potential To Emit											
Material	Density (lb/gal)	Max. Gallons per hour	% Flash Off	Weight % Styrene	Weight % Toluene	Weight % Xylene	Weight % Cumene	Styrene Emissions (tons/yr)	Toluene Emissions (tons/yr)	Xylene Emissions (tons/yr)	Cumene Emissions (tons/yr)
Booth #1											
Gel Coat	9.12	14.36	35%	48.00%	0.00%	0.00%	0.00%	96.40	0.00	0.00	0.00
S-0280 Solvent	8.86	0.20	100%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00
Booth #2											
Gel Coat	9.12	9.10	35%	48.00%	0.00%	0.00%	0.00%	61.07	0.00	0.00	0.00
S-0280 Solvent	8.86	0.02	100%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00
Open Resin Blenders											
Resin	10.00	15.00	3%	34.00%	0.00%	0.00%	0.00%	6.70	0.00	0.00	0.00
TR-210 Release Agent	7.32	0.01	100%	0.00%	80.00%	7.50%	7.50%	0.00	0.35	0.03	0.03
S-0280 Solvent	8.86	0.41	100%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00
Closed Resin Blenders											
Resin	10.00	15.00	3%	34.00%	0.00%	0.00%	0.00%	6.70	0.00	0.00	0.00
TR-210 Release Agent	7.32	0.01	100%	0.00%	80.00%	7.50%	7.50%	0.00	0.35	0.03	0.03
S-0280 Solvent	8.86	0.41	100%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00
								170.87	0.70	0.07	0.07

Total Potential Emissions: 171.70

Methodology:
HAPs emission rate (tons/yr) = density (lb/gal) * (gal/unit) * (units/hour) * weight % HAP * % Flash Off * (8,760 hrs/yr) * (1 ton/2,000 lb)

Appendix A: Emission Calculations
HAP Emissions - Limited Emissions

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP: F057-8653
Plt ID: 057-00045
Reviewer: Trish Earls
Date: July 14, 1997

Limited Emissions

Material	Density (lb/gal)	Max. Gallons per hour	% Flash Off	Weight % Styrene	Weight % Toluene	Weight % Xylene	Weight % Cumene	Material Usage Limitation	Styrene Emissions (tons/yr)	Toluene Emissions (tons/yr)	Xylene Emissions (tons/yr)	Cumene Emissions (tons/yr)
Booth #1												
Gel Coat	9.12	14.36	35%	48.00%	0.00%	0.00%	0.00%	5.50%	5.30	0.00	0.00	0.00
S-0280 Solvent	8.86	0.20	100%	0.00%	0.00%	0.00%	0.00%	5.50%	0.00	0.00	0.00	0.00
Booth #2												
Gel Coat	9.12	9.10	35%	48.00%	0.00%	0.00%	0.00%	5.50%	3.36	0.00	0.00	0.00
S-0280 Solvent	8.86	0.02	100%	0.00%	0.00%	0.00%	0.00%	5.50%	0.00	0.00	0.00	0.00
Open Resin Blenders												
Resin	10.00	15.00	3%	34.00%	0.00%	0.00%	0.00%	5.50%	0.37	0.00	0.00	0.00
TR-210 Release Agent	7.32	0.01	100%	0.00%	80.00%	7.50%	7.50%	5.50%	0.00	0.02	0.00	0.00
S-0280 Solvent	8.86	0.41	100%	0.00%	0.00%	0.00%	0.00%	5.50%	0.00	0.00	0.00	0.00
Closed Resin Blenders												
Resin	10.00	15.00	3%	34.00%	0.00%	0.00%	0.00%	5.50%	0.37	0.00	0.00	0.00
TR-210 Release Agent	7.32	0.01	100%	0.00%	80.00%	7.50%	7.50%	5.50%	0.00	0.02	0.00	0.00
S-0280 Solvent	8.86	0.41	100%	0.00%	0.00%	0.00%	0.00%	5.50%	0.00	0.00	0.00	0.00
									9.40	0.04	0.00	0.00

Total Potential Emissions: 9.45

Note:
At a 5.50% material usage limitation, single HAP and total HAP emissions are limited to 9.4 and less than 24.0 tons per year, respectively. Therefore, the requirements of 326 IAC 2-7 do not apply.

Methodology:
HAPs emission rate (tons/yr) = density (lb/gal) * (gal/unit) * (units/hour) * weight % HAP * % Flash Off * (8,760 hrs/yr) * (1 ton/2,000 lb)

Appendix A: Emission Calculations

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP: F057-8653
Plt ID: 057-00045
Reviewer: Trish Earls
Date: July 14, 1997

Total Potential To Emit (tons/year)

Emissions Generating Activity				
Pollutant	Surface Coating	Sanding and Grinding	Hot Water Boiler	**TOTAL**
PM	243.70	3654.80	0.13	3898.63
PM10	243.70	3654.80	0.07	3898.57
SO2	0.00	0.00	4.55	4.55
NOx	0.00	0.00	1.28	1.28
VOC	211.48	0.00	0.02	211.50
CO	0.00	0.00	0.32	0.32
total HAPs	171.70	0.00	0.00	171.70
worst case single HAP	170.87	0.00	0.00	170.87

Total emissions based on rated capacities at 8,760 hours/year.

**For the purposes of determining Title V applicability, PM10 (not PM) is the regulated pollutant in consideration

Limited Potential To Emit (tons/year)

Emissions Generating Activity				
Pollutant	Surface Coating	Sanding and Grinding	Hot Water Boiler	**TOTAL**
PM	4.87	1.10	0.13	6.10
PM10	4.87	1.10	0.07	6.04
SO2	0.00	0.00	4.55	4.55
NOx	0.00	0.00	1.28	1.28
VOC	11.63	0.00	0.02	11.65
CO	0.00	0.00	0.32	0.32
total HAPs	9.45	0.00	0.00	9.45
worst case single HAP	9.40	0.00	0.00	9.40

Total emissions based on rated capacities at 8,760 hours/year after control.

**For the purposes of determining Title V applicability, PM10 (not PM) is the regulated pollutant in consideration