



**Environmental
Protection Agency**

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

5/1/2012

Certified Mail

Carry Jo Perry
Johns Manville / Plant #01 - wtv1
6050 River Road
Waterville, OH 43566

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

RE: DRAFT AIR POLLUTION PERMIT-TO-INSTALL
Facility ID: 0448000012
Permit Number: P0109601
Permit Type: OAC Chapter 3745-31 Modification
County: Lucas

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install for the referenced facility has been issued for the emissions unit(s) listed in the Authorization section of the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the permit. A public notice will appear in the Ohio EPA Weekly Review and the local newspaper, Toledo Blade. A copy of the public notice and the draft permit are enclosed. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Issued Air Pollution Control Permits" link. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

and Toledo Department of Environmental Services
348 South Erie Street
Toledo, OH 43604

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified in writing if a public hearing is scheduled. A decision on issuing a final permit-to-install will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Toledo Department of Environmental Services at (419)936-3015.

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA Region 5 -Via E-Mail Notification
TDES; Michigan; Indiana; Canada



Permit Strategy Write-Up

1. Check all that apply:

Synthetic Minor Determination

Netting Determination

2. Source Description:

These seven emission units melt glass marbles using electricity. The molten glass flows through bushings that form the glass into fibers. The glass fibers are then treated with a sizing solution. The fibers are then chopped and packaged for delivery. The PE and VOC emissions from these units are captured by a mist elimination system.

3. Facility Emissions and Attainment Status:

PM₁₀, SO₂ and NO_x are major emissions at this facility. All other criteria pollutants are minor.

<u>Pollutant</u>	<u>Potential</u>	<u>Facility</u>	<u>Attainment Status</u>
	<u>Emissions</u>		
PM _{2.5}	unknown		attainment
PM ₁₀	165.02		attainment
PE	97.63		attainment
SO ₂	142.91		attainment
VOC	58.24		attainment
NO _x	142.34		attainment
CO	19.42		attainment

4. Applicable Rules and Regulations:

OAC rule 3745-31-05(A)(3), as effective 11/30/2001	BAT applies to emissions less than ten tons per year (PE and VOC) until the BAT revision dated 12/1/2006 is approved for the SIP. When the SIP revision is approved, these BAT limits will no longer apply.
OAC rule 3745-31-05(D)	Facility has requested federally enforceable emission limits for PE and VOC to limit emissions when BAT no longer applicable.
OAC rule 3745-17-07(A)(1)	20% opacity as a 6-minute average for stack emissions
OAC rule 3745-17-11(B)	Once the BAT revision of 12/1/2006 is approved for the SIP, BAT will not apply to the emissions of PE and VOC since the calculated emissions for these pollutants is less than 10 tons per year. The BAT emission limits are more stringent than this limit. The emission limit from this rule will be effective when the BAT limits no longer apply.



OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/1/2006	Once the BAT revision of 12/1/2006 is approved for the SIP, BAT will not apply to the emissions of PE and VOC since the calculated emissions for these pollutants is less than 10 tons per year, taking into account the mist elimination system.
OAC rule 3745-114-01	Modeling not necessary because emission unit's maximum annual emissions for each toxic air contaminant is less than one ton per year.

5. Source Emissions:

Glass marbles are melted using electricity and extruded through bushings to produce glass fibers. Therefore no emissions are produced from the melting process. After the melted glass is extruded through the bushings, a sizing solution is applied to the fibers. Then the fibers are chopped and boxed for shipping. No drying oven is used. A mist elimination system is used to capture the VOC emissions from the application of the sizing solution and the PE from the chopping of the fibers. An internal stack test was performed in December 2003 for PE and in March 2006 for VOC. This stack test used Method 5 to measure the PE emissions and Method 25A was used to measure VOC emissions. The results of these tests were the basis for the emission factors for the BAT limits. The results are summarized in the table below:

Emission	Test Result	Production Rate	Emission Factor
PE	0.15 pound per hour	77 pound per hour	0.00195 pound per pound glass fiber
VOC	0.75 pound per hour	77 pound per hour	0.00974 pound per pound glass fiber

The facility currently has a production limit of 75 pounds per hour. The limit is imposed by the design of the bushings used to extrude the glass fibers and is therefore the Potential to Emit. The facility would like to increase the production limit to 100 pounds of fiber per hour. This will be accomplished by changing the bushing design to allow a higher production rate. Using the emission factors derived from the stack test and the desired maximum production rate of 100 pounds of fiber per hour, BAT emissions limits were calculated for both short term rates in pounds per hour and long term rates in tons per rolling, 12-month period, allowing for a 10% safety factor. The facility requested the annual emission made federally enforceable since they would default to full potential to emit when BAT was no longer applicable. The emission rates are based on stack testing, with the long term emission rates based on the hourly rates multiplied by 8,760 hours per year:

Emission	Short Term Emission Rate (lb/hr)			Long Term Emission Rate (ton per rolling, 12-month)		
	Current	Proposed	Difference	Current	Proposed	Diff
PE	0.06	0.21	+0.15	0.26	0.92	+0.66
VOC	1.28*	1.07	-0.21	5.51	4.69	-0.82

* Average hourly based on the 919 pounds per month emission limitation

The original or current emission rates were based on stack testing of similar sources. The proposed emission rates are based on stack testing of the permitted emission units. The differences in current to proposed emission rates are below any significant thresholds.



No stack testing was required for the original Permit to Install 04-01209 issued 3/8/2000. The change in emissions for this increase in production rate is not a significant increase. Therefore, no stack testing for VOC and PE emissions will be required for this modification.

The only air toxic contaminant from OAC rule 3745-114-01 used in this emission unit is methanol. Based on mass balance as stated in the submitted application, 4.68×10^{-4} pound of methanol per pound of fiber produced would be released. This would potentially emit 409.56 pounds on an annual basis. With a 95% control efficiency from the mist elimination system, the stack emission rate would be 20.48 pounds on an annual basis. Taking into account all eight emission units permitted, this would result in 163.82 pounds or 0.08 ton of methanol released per year. This is below the 1.0 ton per year threshold that would require air toxic modeling. Therefore the format recommended in the Permit Terms and Conditions Library for less than 1 ton per year emitted was used in the permit.

6. Conclusion:

These emission units are less than 5 TPY in all pollutants. They were originally permitted as insignificant unit. By definition, an emission unit is insignificant when the potential to emit is less than 5 TPY. These emissions are less than 5 TPY taking into account the controls. The emissions, prior to controls, are greater than 5 TPY. Therefore they will change to non-insignificant units. The facility will modify the TV application. The increase in production requested from 75 pounds of fiber per hour to 100 pounds of fiber per hour will not cause a significant increase in emissions. Therefore, it is recommended that this modification in the permit to install be granted.

7. Please provide additional notes or comments as necessary:

None.

8. Total Permit Allowable Emissions Summary (for informational purposes only):

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	6.44 (4.62 increase)
VOC	32.83 (5.74 decrease)

PUBLIC NOTICE
5/1/2012 Issuance of Draft Air Pollution Permit-To-Install

Johns Manville / Plant #01 - wtv1
6050 River Road,
Waterville, OH 43566
Lucas County

FACILITY DESC.: Other Pressed and Blown Glass and Glassware Manufacturing

PERMIT #: P0109601

PERMIT TYPE: OAC Chapter 3745-31 Modification

PERMIT DESC: Modification to increase the output from 75 pounds per hour to 100 pounds per hour for each of seven T-glass units that melt glass marbles with electricity and form them into glass fibers. These emission units will control particulate and VOC emissions with a mist elimination system.

The Director of the Ohio Environmental Protection Agency issued the draft permit above. The permit and complete instructions for requesting information or submitting comments may be obtained at: <http://epa.ohio.gov/dapc/permitsonline.aspx> by entering the permit # or: Brad Faggionato, Toledo Department of Environmental Services, 348 South Erie Street, Toledo, OH 43604. Ph: (419)936-3015



DRAFT

**Division of Air Pollution Control
Permit-to-Install
for
Johns Manville / Plant #01 - wtv1**

Facility ID:	0448000012
Permit Number:	P0109601
Permit Type:	OAC Chapter 3745-31 Modification
Issued:	5/1/2012
Effective:	To be entered upon final issuance



Division of Air Pollution Control
Permit-to-Install
for
Johns Manville / Plant #01 - wtv1

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Authorization

Facility ID: 0448000012
Facility Description: Fiber Glass Manufacturer
Application Number(s): A0043199, A0043821
Permit Number: P0109601
Permit Description: Modification to increase the output from 75 pounds per hour to 100 pounds per hour for each of seven T-glass units that melt glass marbles with electricity and form them into glass fibers. These emission units will control particulate and VOC emissions with a mist elimination system.
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$700.00 *DO NOT send payment at this time, subject to change before final issuance*
Issue Date: 5/1/2012
Effective Date: To be entered upon final issuance

This document constitutes issuance to:

Johns Manville / Plant #01 - wtv1
6050 River Road
Waterville, OH 43566

of a Permit-to-Install for the emissions unit(s) identified on the following page.

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Toledo Department of Environmental Services
348 South Erie Street
Toledo, OH 43604
(419)936-3015

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director



Authorization (continued)

Permit Number: P0109601

Permit Description: Modification to increase the output from 75 pounds per hour to 100 pounds per hour for each of seven T-glass units that melt glass marbles with electricity and form them into glass fibers. These emission units will control particulate and VOC emissions with a mist elimination system.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Group Name: T-glass Units

Emissions Unit ID:	P046
Company Equipment ID:	T-Glass Line #1
Superseded Permit Number:	04-01209
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P047
Company Equipment ID:	T-Glass Line #2
Superseded Permit Number:	04-01209
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P048
Company Equipment ID:	T-Glass Line #3
Superseded Permit Number:	04-01209
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P049
Company Equipment ID:	T-Glass Line #4
Superseded Permit Number:	04-01209
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P050
Company Equipment ID:	T-Glass Line #5
Superseded Permit Number:	04-01209
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P051
Company Equipment ID:	T-Glass Line #6
Superseded Permit Number:	04-01209
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P052
Company Equipment ID:	T-Glass Line #7
Superseded Permit Number:	04-01209
General Permit Category and Type:	Not Applicable

A. Standard Terms and Conditions

1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
 - (1) Standard Term and Condition A.2.a), Severability Clause
 - (2) Standard Term and Condition A.3.c) through A. 3.e) General Requirements
 - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
 - (4) Standard Term and Condition A.9., Reporting Requirements
 - (5) Standard Term and Condition A.10., Applicability
 - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
 - (7) Standard Term and Condition A.14., Public Disclosure
 - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (9) Standard Term and Condition A.16., Fees
 - (10) Standard Term and Condition A.17., Permit Transfers

2. Severability Clause

- a) A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

3. General Requirements

- a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification.

Effective Date: To be entered upon final issuance

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

4. Monitoring and Related Record Keeping and Reporting Requirements

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) The operating conditions existing at the time of sampling or measurement.
- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Toledo Department of Environmental Services.

- (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Toledo Department of Environmental Services. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.
 - (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the Toledo Department of Environmental Services every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - (4) This permit is for an emissions unit located at a Title V facility. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

5. Scheduled Maintenance/Malfunction Reporting

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

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

6. Compliance Requirements

- a) The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.
- b) Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

- c) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- d) The permittee shall submit progress reports to the Toledo Department of Environmental Services concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

7. Best Available Technology

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

8. Air Pollution Nuisance

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

9. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Toledo Department of Environmental Services.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission

limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Toledo Department of Environmental Services. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

10. Applicability

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

11. Construction of New Sources(s) and Authorization to Install

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.
- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in Ohio EPA's "Air Services" along with the date the emissions unit(s) was permanently

removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31). All records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

No emissions unit certified by the authorized official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

12. Permit-To-Operate Application

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

13. Construction Compliance Certification

The applicant shall identify the following dates in the online facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

14. Public Disclosure

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

15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

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

16. Fees

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

17. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in Air Services once the transfer is legally completed. The change must be submitted through Air Services within thirty days of the ownership transfer date.

18. Risk Management Plans

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

19. Title IV Provisions

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

B. Facility-Wide Terms and Conditions

Draft Permit-to-Install

Johns Manville / Plant #01 - wtv1

Permit Number: P0109601

Facility ID: 0448000012

Effective Date: To be entered upon final issuance

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - a) None.

C. Emissions Unit Terms and Conditions

1. Emissions Unit Group -T-glass Units: P046,P047,P048,P049,P050,P051,P052.

EU ID	Operations, Property and/or Equipment Description
P046	T-glass electric glass marble melting unit #1 w/ particulate and VOC control using a mist elimination system
P047	T-glass electric glass marble melting unit #2 w/ particulate and VOC control using a mist elimination system
P048	T-glass electric glass marble melting unit #3 w/ particulate and VOC control using a mist elimination system
P049	T-glass electric glass marble melting unit #4 w/ particulate and VOC control using a mist elimination system
P050	T-glass electric glass marble melting unit #5 w/ particulate and VOC control using a mist elimination system
P051	T-glass electric glass marble melting unit #6 w/ particulate and VOC control using a mist elimination system
P052	T-glass electric glass marble melting unit #7 w/ particulate and VOC control using a mist elimination system

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

(1) d)(3).

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001	Particulate emissions (PE) shall not exceed 0.21 pound per hour. Volatile Organic Compound (VOC) emissions shall not exceed 1.07 pounds per hour. See b)(2)a. and c)(1).
b.	OAC rule 3745-31-05(D)	PE shall not exceed 0.92 ton per rolling, 12-month period. VOC emissions shall not exceed 4.69 tons per rolling, 12-month period.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the stack serving this emission unit shall not exceed 20% opacity as a six-minute average, except as provided by rule.

d.	OAC rule 3745-17-11(B)	Particulate emissions (PE) shall not exceed 0.551 pound per hour.
e.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/1/2006	See b)(2)b.
f.	OAC rule 3745-114-01(A)	See d)(3).

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.

b. This rule paragraph applies once the U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan (SIP).

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE and VOC emissions from this air contaminant source since the calculated annual emission rate for PE and VOC is each less than 10 tons per year, taking into account the mist elimination system required by the operational restriction.

c) Operational Restrictions

(1) The permittee shall operate a mist elimination system whenever this emissions unit is in operation to minimize the particulate and VOC emissions.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;

- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

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

- (2) The permittee shall maintain daily records that document any time periods when the mist elimination system was not in service when the emissions unit was in use.
- (3) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified permit-to-install (PTI) prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new PTI.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the Director (Toledo Division of Environmental Services) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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- (3) The permittee shall submit quarterly deviation (excursion) report detailing any time period when the mist elimination system was not in service when the emissions unit was in use.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

Visible particulate emissions from the stack shall not exceed 20% opacity, as a 6-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(1).

- b. Emission Limitation:

PE shall not exceed 0.21 pound per hour.

Applicable Compliance Method:

This emission limitation was developed based on the emission factor derived from emission testing performed in accordance with Methods 1 through 5 of 40 CFR Part 60 Appendix A (0.00195 pound PE per pound of glass processed; tested on December 10, 2003). This emission factor was multiplied by the maximum throughput capacity of 100 pounds per hour and allowing for a 10% safety factor.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A, or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

- c. Emission Limitation:

PE shall not exceed 0.92 ton per rolling, 12-month period.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated by multiplying a short term emissions rate of 0.21 pound per PE per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

d. Emission Limitation:

VOC shall not exceed 1.07 pounds per hour.

Applicable Compliance Method:

This emission limitation was developed based on the emission factor derived from emission testing performed in accordance with Methods 1 through 4 and 25A of 40 CFR Part 60 Appendix A (0.00974 pound VOC per pound of glass processed; tested on March 31, 2006). This emission factor was multiplied by the maximum throughput capacity of 100 pounds of glass processed per hour and allowing for a 10% safety factor.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 18, 25 or 25A, as appropriate of 40 CFR Part 60 Appendix A, and the methods and procedures specified in OAC rule 3745-21-10. Use of Method 18, 25 or 25A is to be selected based on the results of pre-survey stack sampling and U.S. EPA guidance documents. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

e. Emission Limitation:

VOC shall not exceed 4.69 tons per rolling, 12-month period.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated by multiplying the short term emissions rate of 1.07 pounds of VOC per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

f. Emission Limitation:

PE shall not exceed 0.551 pound per hour.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A, or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

g) Miscellaneous Requirements

(1) None.