



Environmental  
Protection Agency

Ted Strickland, Governor  
Lee Fisher, Lt. Governor  
Chris Korleski, Director

11/1/2010

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: P0106573  
Permit Type: Administrative 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](http://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  
122 South Front Street  
Columbus, Ohio 43215

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:

This PTI is an administrative modification to add BAT limits for emissions under ten tons per year as stated in the guidance memo dated 7/2/2010. These BAT limits are not new limits, but reinstating of limits present before a Chapter 31 modification effective 9/14/2009 that created the Direct Chop Oven and Classifier pairs (P061 – P064). The Chapter 31 modification removed the BAT limits for PE, NO<sub>x</sub>, SO<sub>2</sub>, and CO, since all these emissions are less than ten tons per year. The NO<sub>x</sub>, SO<sub>2</sub>, and CO emissions are due to fuel burning in the natural gas dryer ovens. The PE emissions are from the glass fibers in the product. The VOC emissions are primarily generated by the binder used in the product, to a lesser extent by the burning of natural gas in the dryer oven, is over ten tons per year and already have BAT limits. The PM<sub>10</sub> emission limits are based on a previous PSD review and have not changed.

3. Facility Emissions and Attainment Status:

PM<sub>10</sub>, SO<sub>2</sub> and NO<sub>x</sub> are major emissions at this facility. All other criteria pollutants are minor.

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

4. Applicable Rules/Regulations

OAC rule 3745-31-05(A)(3)	BAT applies to VOC emissions since the emissions are greater than ten tons per year.
OAC rule 3745-31-05(A)(3), as effective 11/30/2001	BAT applies to emissions less than ten tons per year (CO, NO <sub>x</sub> , SO <sub>2</sub> , PE) until the BAT revision dated 12/1/2006 is approved for the SIP. These BAT limits were established in PTI 04-01345 for emission units P037 – P044. When P0104989 consolidated these emission units to P061-P064, BAT was removed per SB 265 since the emissions were less than 10 tons per year.
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 CO, NO <sub>x</sub> , and SO <sub>2</sub> since the uncontrolled potential to emit for these pollutants is less than 10 tons per year. Also, once the BAT revision of 12/1/2006 is approved for the SIP,



	BAT will not apply to the emissions of PE since the potential emissions of these pollutants is less than 10 ton per year, taking into consideration the baghouse required by the operational restriction.
OAC rule 3745-17-07(A)(1)	20% opacity as a 6-minute average
OAC rule 3745-11(B)(1)	Particulate emissions shall not exceed 5.38 pounds per hour; this SIP limitation will be the enforceable limitation when the BAT revision dated 12/1/2006 is approved as part of the SIP. This amount will still be larger than potential to emit, taking into the baghouse restriction.
OAC rule 3745-18-06(A)	Exempt from this rule due to exclusive use of natural gas.
OAC rule 3745-21-07(B)	Satisfied by BAT requirements
OAC rule 3745-31-05(D)	Federally enforceable limits on emissions from combined emission units P061 through P064. Based on a production limitation and emission factors.
OAC rule 3745-31-10 thru 20	Federally enforceable limit on PM <sub>10</sub> due to a past PSD review, PTI 04-01345 dated 5/20/2004.

5. Source Emissions:

The emissions due to the burning of natural gas in the dryer oven (CO, NO<sub>x</sub>, SO<sub>2</sub>) are less than ten tons per year and based on AP-42 emissions factors. They are based on potential to emit for the maximum heat capacity of the ovens (2.0 mmBtu/hr each) and 8,760 hours per year. The PE emissions are based on emissions from the glass fibers used in the product with an emission factor supplied by the facility and are also less than ten tons per year. Particulate emissions are controlled by a bag house. The BAT limit for all these emissions were eliminated in these emission units per OAC rule 3745-31-05(A)(3)(A)(ii) effective 12/1/2006, in the Chapter 31 permit modification dated 9/14/2009. With the new BAT guidance dated 7/2/2010, these BAT limits need to be reinstated until the change in SIP is approved by the USEPA. The additional notes below show the calculations that are the basis of the emission limits.

6. Conclusion:

The BAT emission limits added to this permit are not new. They are all BAT limits that were in place prior to the Chapter 31 modification dated 9/14/2009. These BAT limits were removed per OAC rule 3745-31-05(A)(3)(A)(ii) since they were less than ten tons per year. The basis for these emissions, glass fibers and fuel burning in dryer, have not changed in magnitude since PTI 04-01345 dated January 26, 2006, so the magnitude of the emissions have not changed either.

7. Please provide additional notes or comments as necessary:

CO emissions

These emissions are generated by the 2 mmBtu natural gas dryer oven. The emission factor is based on AP-42, fifth edition, Table 1.4-2 dated 7/98. The emissions limits are based on potential to emit.

$$\text{CO emissions} = (\text{AP-42 in lb/mmBtu})(\text{max heat input capacity in mmBtu/hr}) / (1020 \text{ mmBtu/mmBtu})$$

$$(\text{hourly}) = (84 \text{ lb/mmBtu})(2.0 \text{ mmBtu}) / (1020 \text{ mmBtu/mmBtu}) = 0.165 \text{ lb CO/hr}$$

$$\text{CO emissions (annual)} = (\text{CO emissions hourly})(8760 \text{ hr/yr}) / (2000 \text{ lb/ton})$$

$$= (0.165 \text{ lb CO/hr})(8760 \text{ hr/yr}) / (2000 \text{ lb/ton}) = 0.73 \text{ ton CO /yr}$$



Emission Units P061 – P064 all use the same size dryer (2 mmBtu), so these limits apply to each.

### SO<sub>2</sub> emissions

These emissions are generated by the 2 mmBtu natural gas dryer oven. The emission factor is based on AP-42, fifth edition, Table 1.4-2 dated 7/98. The emissions limits are based on potential to emit.

$$\text{SO}_2 \text{ emissions} = (\text{AP-42 in lb/mmBtu})(\text{max heat input capacity in mmBtu/hr}) / (1020 \text{ mmBtu/mmBtu})$$
$$\text{(hourly)} = (0.6 \text{ lb/mmBtu})(2.0 \text{ mmBtu}) / (1020 \text{ mmBtu/mmBtu}) = 0.0012 \text{ lb SO}_2/\text{hr}$$

$$\text{SO}_2 \text{ emissions (annual)} = (\text{SO}_2 \text{ emissions hourly})(8760 \text{ hr/yr}) / (2000 \text{ lb/ton})$$
$$= (0.0012 \text{ lb SO}_2/\text{hr})(8760 \text{ hr/yr}) / (2000 \text{ lb/ton}) = 0.006 \text{ ton SO}_2/\text{yr}$$

Emission Units P061 – P064 all use the same size dryer (2 mmBtu), so these limits apply to each.

### NO<sub>x</sub> emissions

These emissions are generated by the 2 mmBtu natural gas dryer oven. The emission factor is based on AP-42, fifth edition, Table 1.4-1 dated 7/98. The emissions limits are based on potential to emit.

$$\text{NO}_x \text{ emissions} = (\text{AP-42 in lb/mmBtu})(\text{max heat input capacity in mmBtu/hr}) / (1020 \text{ mmBtu/mmBtu})$$
$$\text{(hourly)} = (100 \text{ lb/mmBtu})(2.0 \text{ mmBtu}) / (1020 \text{ mmBtu/mmBtu}) = 0.196 \text{ lb NO}_x/\text{hr}$$

$$\text{NO}_x \text{ emissions (annual)} = (\text{NO}_x \text{ emissions hourly})(8760 \text{ hr/yr}) / (2000 \text{ lb/ton})$$
$$= (0.196 \text{ lb NO}_x/\text{hr})(8760 \text{ hr/yr}) / (2000 \text{ lb/ton}) = 0.86 \text{ ton NO}_x/\text{yr}$$

Emission Units P061 – P064 all use the same size dryer (2 mmBtu), so these limits apply to each.

### PM<sub>10</sub> emissions

These emissions are unchanged from the previous PTI. The PM<sub>10</sub> emissions are based on the binder used for the fiberglass fibers. A 2006 stack test was performed with these binders and the emissions factors were found to be 0.07 pounds of PM<sub>10</sub> per ton of glass fibers processed for P061 and P063 and 0.80 pounds of PM<sub>10</sub> per ton of glass fibers processed for P062 and P064. Equipment limitations prevent the use of the binder that generates the larger emission factor (0.80 lb/ton) for PM<sub>10</sub> in emission units P061 and P063. The facility has also taken a restriction on the amount of glass fibers processed in the combined emission units P061 – P064 on an annual basis. There is also a limit on the combined annual emissions for emission units P061 - P064 that limits the PM<sub>10</sub> emissions to 11.34 tons per rolling, 12-month period. The basis for these emissions was a PSD review performed in 2004.

### PE emissions

These emissions are based on the glass fibers. The throughput of glass fibers has not changed since PTI 04-01345 dated January 26, 2006. The maximum pounds per hour and tons per year of PM for each emission unit is based on maximum throughput of 2907 pounds per hour of glass in each emission unit and operating 8,760 hours per year. There is also a limitation on emissions from the combined output of the four pairs of classifiers and ovens. This emission limitation is based on the federally enforceable throughput limitation of 30,165.2 tons per year of glass fibers processed in these emission units combined. Since the source of PE is from the glass fibers, and the throughput of glass has not changed, the emission limits calculated from PTI 04-01345 dated January 26, 2006 have not changed either. The PE limitations for each individual emission unit were based on PTE estimates using the company supplied emission

factors of 0.02 gr/dscf of PE from the application for PTI 04-01345. The emissions are controlled by a fabric filter with a bag break detection system.

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

<u>Pollutant</u>	<u>Tons Per Year(increase)</u>
CO	2.99 (0)
NO <sub>x</sub>	3.56 (0)
PE	2.83 (0)
PM <sub>10</sub>	11.34 (0)
SO <sub>2</sub>	0.02 (0)
VOC	33.63 (0)

PUBLIC NOTICE  
Issuance of Draft Air Pollution Permit-To-Install  
Johns Manville / Plant #01 - wtv1

Issue Date: 11/1/2010  
Permit Number: P0106573  
Permit Type: Administrative Modification  
Permit Description: Reinstall BAT terms for emissions less than ten tons per year.  
Facility ID: 0448000012  
Facility Location: Johns Manville / Plant #01 - wtv1  
6050 River Road,  
Waterville, OH 43566  
Facility Description: Other Pressed and Blown Glass and Glassware Manufacturing

Chris Korleski, Director of the Ohio Environmental Protection Agency, 50 West Town Street, Columbus Ohio, has issued a draft action of an air pollution control permit-to-install (PTI) for an air contaminant source at the location identified above on the date indicated. Installation of the air contaminant source may proceed upon final issuance of the PTI. Comments concerning this draft action, or a request for a public meeting, must be sent in writing no later than thirty (30) days from the date this notice is published. All comments, questions, requests for permit applications or other pertinent documentation, and correspondence concerning this action must be directed to Mary Lehman-Schmidt at Toledo Department of Environmental Services, 348 South Erie Street, Toledo, OH 43604 or (419)936-3015. The permit can be downloaded from the Web page: [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc)





**DRAFT**

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

Facility ID: 0448000012  
Permit Number: P0106573  
Permit Type: Administrative Modification  
Issued: 11/1/2010  
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): M0000853  
Permit Number: P0106573  
Permit Description: Reinstall BAT terms for emissions less than ten tons per year.  
Permit Type: Administrative Modification  
Permit Fee: \$0.00 *DO NOT send payment at this time, subject to change before final issuance*  
Issue Date: 11/1/2010  
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

Chris Korleski  
Director



## Authorization (continued)

Permit Number: P0106573  
Permit Description: Reinstall BAT terms for emissions less than ten tons per year.

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

<b>Emissions Unit ID:</b>	<b>P061</b>
Company Equipment ID:	Direct Chop Oven and Classifier #1 Leg #5
Superseded Permit Number:	P0104989
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P062</b>
Company Equipment ID:	Direct Chop Oven & Classifier #2
Superseded Permit Number:	P0104989
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P063</b>
Company Equipment ID:	Direct Chop Oven & Classifier #3
Superseded Permit Number:	P0104989
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P064</b>
Company Equipment ID:	Direct Chop Oven & Classifier #4
Superseded Permit Number:	P0104989
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.

- 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:



**Effective Date:** To be entered upon final issuance

- (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**

**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. P061, Direct Chop Oven and Classifier #1 Leg #5**

**Operations, Property and/or Equipment Description:**

Direct Chop Oven & Classifier #1 with baghouse

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) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(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. 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) (PTI P0104989 dated 9/14/2009)	Volatile organic compound (VOC) emissions shall not exceed 2.23 pounds per ton of glass and 14.16 tons per year. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001  (PTI 04-01345 as modified by P0104989 dated 9/14/2009)	Filterable particulate emissions (PE) shall not exceed 0.27 pound per hour and 1.19 tons per year. Sulfur dioxide (SO <sub>2</sub> ) emissions shall not exceed 0.0012 pound per hour and 0.006 ton per year. Nitrogen oxides (NO <sub>x</sub> ) shall not exceed 0.196 pound per hour and 0.86 ton per year. Carbon monoxide (CO) shall not exceed 0.165 pound per hour and 0.73 ton per year. See b)(2)f. and b)(2)g.
c.	OAC rule 3745-17-07(A)(1)	Visible PE shall not exceed 20% opacity, as a 6-minute average unless otherwise specified by the rules.  See b)(2)h.
d.	OAC rule 3745-17-11(B)(1)	PE shall not exceed 5.38 pounds per hour.  See b)(2)h.
e.	OAC rule 3745-31-05(D)	See b)(2)b. and b)(2)c.
f.	OAC rules 3745-31-10 thru 20 (PTI 04-01345 as modified by	Particulate matter emission of less than or equal to 10 microns in diameter (PM <sub>10</sub> )

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	P0104989 dated 9/14/2009)	shall not exceed 0.70 pounds per ton of glass and 4.46 tons per year.
g.	OAC rule 3745-31-05(A)(3)(b), as effective 12/1/2006	See b)(2)d. and b)(2)e.

(2) Additional Terms and Conditions

- a. These emission limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.
- b. Combined annual emissions from P061 through P064 shall not exceed 0.020 ton of SO<sub>2</sub>, 2.99 tons of CO, 3.56 tons of NO<sub>x</sub>, and 33.63 tons of VOC per rolling, 12-month period.
- c. The combined emissions of PM<sub>10</sub> from P061 through P064 shall not exceed 11.34 tons as a rolling, 12-month summation.
- d. 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 CO, NO<sub>x</sub>, and SO<sub>2</sub> emissions from this air contaminant source since the uncontrolled potential to emit for CO, NO<sub>x</sub>, and SO<sub>2</sub> is each less than 10 tons/year.
- e. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP.  
  
The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE and PM<sub>10</sub> emissions from this air contaminant source since the calculated annual emission rate for PE and PM<sub>10</sub> is each less than 10 tons/year, taking into account the baghouse required by the operational restriction.
- f. The hourly and annual emission limitations for CO, NO<sub>x</sub>, PE, and SO<sub>2</sub> were established for permitting purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these emission limitations.
- g. Visible PE from the stacks serving this emissions unit shall not exceed 10% opacity, as a 6-minute average.
- h. The PE requirements established by this rule are less stringent than the requirements established under OAC rule 3745-31-05(A)(3)(a). On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer

required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US 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 US EPA approves the December 1, 2006 version of 3745-31-05, then the requirements of OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B) and all associated terms and conditions become effective.

c) Operational Restrictions

- (1) The permittee shall burn only natural gas in this emissions unit.
- (2) The permittee shall operate the baghouse whenever this emissions unit is in operation.
- (3) The combined volume of natural gas combusted in emissions units P061 through P064 shall not exceed 71.106 mmscf per rolling, 12-month period.
- (4) The combined throughput of glass fibers in emissions units P061 through P064 shall not exceed 30,165.2 tons per rolling, 12-month period.
- (5) The permittee shall initiate corrective action within 1 hour of an alarm from a bag leak detection system and complete corrective actions in a timely manner. Example corrective actions may include:
  - a. inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other conditions that may cause an increase in emissions;
  - b. sealing off defective bags or filter media;
  - c. replacing defective bags or filter media, or otherwise repairing the control device;
  - d. sealing off a defective baghouse compartment;
  - e. cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system; and
  - f. shutting down the process producing the particulate emissions.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- (2) The permittee shall maintain daily records that document any time periods when the baghouse was not in service when the emissions unit was in operation.
- (3) The permittee shall maintain records, on a monthly basis, of the combined volume of natural gas combusted, in mmscf, in emissions units P061 through P064 as a rolling, 12-month summation.

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- (4) The permittee shall maintain records, on a monthly basis, of the throughput of glass fibers, in tons, for this emissions unit as a rolling, 12-month summation.
- (5) The permittee shall maintain records, on a monthly basis, of the rolling, 12-month emissions of PM<sub>10</sub> from emission units P061 through P064, as calculated in f)(2)c.
- (6) The permittee shall maintain records, on a monthly basis, of the combined throughput of glass fibers, in tons, for emissions units P061 through P064 as a rolling, 12-month summation.
- (7) The permittee shall install, calibrate, maintain, and continuously operate a bag leak detection system.
  - a. A triboelectric bag leak detection system shall be installed, operated, adjusted, and maintained in a manner consistent with the U.S. Environmental Protection Agency guidance, "Fabric Filter Bag Leak Detection Guidance" (EPA-454/R-98-015, September 1997). Other bag leak detection systems including, but not limited to, devices using light scattering and other effects, shall be installed, operated, adjusted, and maintained in a manner consistent with the manufacturer's written specifications and recommendations.
  - b. The bag leak detection system shall be certified by the manufacturer to be capable of detecting PE emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grain per actual cubic foot) or less.
  - c. The bag leak detection system sensor shall produce an output of relative particulate emissions.
  - d. The bag leak detection system shall be equipped with an alarm system that will sound automatically when an increase in relative PE emissions over a preset level is detected and the alarm shall be located such that it can be heard by the appropriate plant personnel.
  - e. The bag leak detection system shall be installed downstream of the baghouse. Where multiple bag leak detection systems are required, the system instrumentation and alarm may be shared among the monitors.
  - f. Initial adjustment of the system shall, at a minimum, consist of establishing the baseline output by adjusting the range and the averaging period of the device and establishing the alarm set points and the alarm delay time.
  - g. Following the initial adjustment, the permittee shall not adjust the range, averaging period, alarm set points, or alarm delay time. In no event shall the range be increased by more than 100 percent or decreased more than 50 percent over a 365-day period unless a responsible official certifies, by written report, that the baghouse has been inspected and found to be in good operating condition.

The permittee shall maintain records of any bag leak detection system alarms, including the date and time of the alarm, when corrective actions were initiated, the cause of the

alarm, an explanation of the corrective actions taken, and when the cause of the alarm was corrected.

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

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- a. all periods of time during which any bag leak detection system alarms were sounded. The reports shall include a summary of the date and time of the alarm(s), when corrective actions were initiated, the cause of the alarm(s), an explanation of the corrective actions taken, and when the cause of the alarm(s) was corrected.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

- (2) The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record showing that the baghouse was not in service when the emission unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.
- (3) The permittee shall submit quarterly 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 (the appropriate Ohio EPA District Office or local air agency) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous 3-month period.

- (4) The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.



f) Testing Requirements

(1) Compliance with the emission limitation(s) in b)(1) in this permit shall be determined according to the following methods:

a. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-17-03(B)(1); or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

b. Emission Limitation:

Visible PE shall not exceed 10% opacity, as a 6-minute average.

Applicable Compliance Method;

If required, compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-17-03(B)(1); or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

c. Emission Limitation:

5.38 pound of PE 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, using the methods and procedures specified in OAC rule 3745-17-03(B)(10), or other U.S. EPA-approved test method, with prior approval from the Ohio EPA.

d. Emission Limitation:

0.70 pound of PM10 per ton of glass

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 of 40 CFR Part 60, Appendix A and Methods 201 and 202 of 40 CFR Part 51, Appendix M, or other U.S. EPA-approved test method, with prior approval from the Ohio EPA.

e. Emission Limitation:

4.46 ton of PM10 per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.70 pound of PM10 per ton of glass by the maximum process rate of 1.45 tons of glass per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

f. Emission Limitation:

2.23 pounds of VOC per ton of glass

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 25 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-21-10, or other U.S. EPA-approved test method, with prior approval from the Ohio EPA.

g. Emission Limitation:

14.16 tons of VOC per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 2.23 pounds of VOC per ton of glass by the maximum process rate of 1.45 tons of glass per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

h. Emission Limitation:

0.27 pound of PE 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, using the methods and procedures specified in OAC rule 3745-17-03(B)(10), or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

i. Emission Limitation:

1.19 tons of PE per year

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 0.27 pound of PE per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

j. Emission Limitation:

0.0012 pound of SO<sub>2</sub> per hour

Applicable Compliance Method:

This emissions limit which was established through calculations based on emission factors specified in U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2 dated 7/98, as follows: divide the emission factor of 0.6 pound of SO<sub>2</sub> emissions per million standard cubic feet by a heating value of 1020 Btu per standard cubic foot and multiply by the maximum heat input capacity of 2 mmBtu per hour.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04 or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

k. Emission Limitation:

0.006 ton of SO<sub>2</sub> per year

Applicable Compliance Method:

The emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.0012 pound of SO<sub>2</sub> per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

l. Emissions Limitation:

0.196 pound of NO<sub>x</sub> per hour

Applicable Compliance Method:

This emission limit which was established through calculations based on emission factors specified in U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 dated 7/98, as follows: divide the emission factor of 100 pounds of NO<sub>x</sub> emissions per mmscf by a heating value of 1,020 Btu per standard cubic foot and multiply the result by the maximum heat input capacity of 2 mmBtu per hour.

If required, the permittee shall demonstrate compliance with the emission limitation through emission testing performed in accordance with Methods 1

through 4 and 7 of 40 CFR Part 60 Appendix A, or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

m. Emissions Limitation:

0.86 ton of NO<sub>x</sub> per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.196 pound of NO<sub>x</sub> per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

n. Emissions Limitation:

0.165 pound of CO per hour

Applicable Compliance Method:

This emissions limit was established through calculations based on emission factors specified in U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 dated 7/98, as follows: divide the emission factor of 84 pounds of CO emission per million standard cubic foot by a heating value of 1,020 Btu per standard cubic foot and multiply the result by the maximum heat input capacity of 2 mmBtu per hour.

If required, the permittee shall demonstrate compliance with the emission limitation through emission testing performed in accordance with Methods 1 through 4 and 10 of 40 CFR Part 60 Appendix A, or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

o. Emissions Limitation:

0.73 ton of CO per year

Applicable Compliance Method:

The emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.165 pound of CO per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

(2) Compliance with the combined emission limitation(s) in b)(1) for emissions units P061 through P064 shall be determined according to the following methods:

a. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 2.99 tons of CO per rolling, 12-month period.

b. Applicable Compliance Method:

The emission limitation was established by multiplying the emission factor specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 dated 7/98 (84 pounds of CO emissions per mmscf) by the actual volume of natural gas combusted in emissions units P061 through P064 per rolling, 12-month period (in mmscft, as recorded in d)(3) above), and then dividing by 2000 pounds per ton.

c. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 3.56 ton of NOx per rolling, 12-month period.

Applicable Compliance Method:

The emission limitation was established by multiplying the emission factor specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 dated 7/98 (100 pounds of NOx per mmscf) by the actual volume of natural gas combusted in emissions units P061 through P064 per rolling, 12-month period (in mmscft, as recorded in d)(3) above), and then dividing by 2000 pounds per ton.

d. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 11.34 tons of PM10 per rolling, 12-month period.

Applicable Compliance Method:

The emission limitation was established by multiplying the emission factor determined during the most recent stack test(s) which demonstrated compliance with this emission limitation for PM10 (in pounds PM10 per ton of glass throughput) by the throughput of glass fibers, in tons, for this emissions units per rolling, 12-month period (in tons, as recorded in d)(4) above). To this amount shall be added the corresponding emissions on a rolling, 12-month basis from emission units P062 through P064.

e. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 0.02 ton SO2, per rolling, 12-month period.

Applicable Compliance Method:

The emission limitation was established by multiplying the emission factor specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2 dated 7/98 (0.6 pound of SO2 per mmscf) by the actual volume of natural gas combusted in emissions units P061

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through P064 per rolling, 12-month period (in mmscft, as recorded in d)(3) above), and then dividing by 2000 pounds per ton.

f. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 33.63 tons of VOC per rolling, 12-month period.

Applicable Compliance Method:

The emission limitation was established by multiplying the emission factor determined during the most recent stack test which demonstrated compliance with this emission limitation for VOC (in pounds VOC per ton of glass throughput) by the throughput of glass fibers, in tons, for this emissions units per rolling, 12-month period (in tons, as recorded in d)(4) above). To this amount shall be added the corresponding emissions on a rolling, 12-month basis from emission units P062 through P064.

- (3) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted when required by the Toledo Division of Environmental Services or Ohio EPA Central Office.
  - b. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): For PM10, Methods 201 and 202 of 40 CFR Part 51, Appendix M. For VOC, Method 25 of 40 CFR Part 60 Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
  - c. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity and employing the product with the highest emissions level, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

The 3-hour average process weight rate, in tons of glass dried per hour, shall be determined during the stack testing to allow a determination of an emission factor in pounds of the regulated pollutant per ton of glass dried.

No later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Toledo Division of Environmental Services or Ohio EPA Central Office's refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services or Ohio EPA Central Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or



the performance of the control equipment.

A comprehensive written report of the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Toledo Division of Environmental Services within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Toledo Division of Environmental Services or Ohio EPA Central Office.

g) Miscellaneous Requirements

- (1) None.



**2. P062, Direct Chop Oven & Classifier #2**

**Operations, Property and/or Equipment Description:**

Direct Chop Oven & Classifier #2 with baghouse

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) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(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. 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) (PTI P0104989 dated 9/14/2009)	Volatile organic compound (VOC) emissions shall not exceed 2.23 pounds per ton of glass and 14.16 tons per year. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001  (PTI 04-01345 as modified by P0104989 dated 9/14/2009)	Filterable particulate emissions (PE) shall not exceed 0.27 pound per hour and 1.19 tons per year. Sulfur dioxide (SO <sub>2</sub> ) emissions shall not exceed 0.0012 pound per hour and 0.006 ton per year. Nitrogen oxides (NO <sub>x</sub> ) shall not exceed 0.196 pound per hour and 0.86 ton per year. Carbon monoxide (CO) shall not exceed 0.165 pound per hour and 0.73 ton per year. See b)(2)f. and b)(2)g.
c.	OAC rule 3745-17-07(A)(1)	Visible PE shall not exceed 20% opacity, as a 6-minute average unless otherwise specified by the rules.  See b)(2)h.
d.	OAC rule 3745-17-11(B)(1)	PE shall not exceed 5.38 pounds per hour.  See b)(2)h.
f.	OAC rule 3745-31-05(D)	See b)(2)b. and b)(2)c.
g.	OAC rules 3745-31-10 thru 20 (PTI 04-01345 as modified by	Particulate matter emission of less than or equal to 10 microns in diameter (PM <sub>10</sub> )

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	P0104989 dated 9/14/2009)	shall not exceed 0.80 pounds per ton of glass and 5.08 tons per year.
h.	OAC rule 3745-31-05(A)(3)(b), as effective 12/1/06	See b)(2)d. and b)(2)e.

(2) Additional Terms and Conditions

- a. These emission limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.
- b. Combined annual emissions from P061 through P064 shall not exceed 0.020 ton of SO<sub>2</sub>, 2.99 tons of CO, 3.56 tons of NO<sub>x</sub>, and 33.63 tons of VOC per rolling, 12-month period.
- c. The combined emissions of PM<sub>10</sub> from P061 through P064 shall not exceed 11.34 tons as a rolling, 12-month summation.
- d. 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 CO, NO<sub>x</sub>, and SO<sub>2</sub> emissions from this air contaminant source since the uncontrolled potential to emit for CO, NO<sub>x</sub>, and SO<sub>2</sub> is each less than 10 tons/year.
- e. 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 SIP.  
  
The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE and PM<sub>10</sub> emissions from this air contaminant source since the calculated annual emission rate for PE and PM<sub>10</sub> is each less than 10 tons/year, taking into account the baghouse required by the operational restriction.
- f. The hourly and annual emissions limitations for CO, NO<sub>x</sub>, PE, and SO<sub>2</sub> were established for permitting purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.
- g. Visible PE from the stacks serving this emissions unit shall not exceed 10% opacity, as a 6-minute average.
- h. The PE requirements established by this rule are less stringent than the requirements established under OAC rule 3745-31-05(A)(3)(a). On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer

required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US 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 US EPA approves the December 1, 2006 version of 3745-31-05, then the requirements of OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B) and all associated terms and conditions become effective.

c) Operational Restrictions

- (1) The permittee shall burn only natural gas in this emissions unit.
- (2) The permittee shall operate the baghouse whenever this emissions unit is in operation.
- (3) The combined volume of natural gas combusted in emissions units P061 through P064 shall not exceed 71.106 mmscf per rolling, 12-month period.
- (4) The permittee shall maintain records, on a monthly basis, of the throughput of glass fibers, in tons, for this emissions unit as a rolling, 12-month summation.
- (5) The combined throughput of glass fibers in emissions units P061 through P064 shall not exceed 30,165.2 tons per rolling, 12-month period.
- (6) The permittee shall initiate corrective action within 1 hour of an alarm from a bag leak detection system and complete corrective actions in a timely manner. Example corrective actions may include:
  - a. inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other conditions that may cause an increase in emissions;
  - b. sealing off defective bags or filter media;
  - c. replacing defective bags or filter media, or otherwise repairing the control device;
  - d. sealing off a defective baghouse compartment;
  - e. cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system; and
  - f. shutting down the process producing the particulate emissions.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- (2) The permittee shall maintain daily records that document any time periods when the baghouse was not in service when the emissions unit was in operation.

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- (3) The permittee shall maintain records, on a monthly basis, of the combined volume of natural gas combusted, in mmscf, in emissions units P061 through P064 as a rolling, 12-month summation.
- (4) The permittee shall maintain records, on a monthly basis, of the throughput of glass fibers, in tons, for this emissions unit as a rolling, 12-month summation.
- (5) The permittee shall maintain records, on a monthly basis, of the rolling, 12-month emissions of PM<sub>10</sub> from emission units P061 through P064, as calculated in f)(2)c.
- (6) The permittee shall maintain records, on a monthly basis, of the combined throughput of glass fibers, in tons, for emissions units P061 through P064 as a rolling, 12-month summation.
- (7) The permittee shall install, calibrate, maintain, and continuously operate a bag leak detection system.
  - a. A triboelectric bag leak detection system shall be installed, operated, adjusted, and maintained in a manner consistent with the U.S. Environmental Protection Agency guidance, "Fabric Filter Bag Leak Detection Guidance" (EPA-454/R-98-015, September 1997). Other bag leak detection systems including, but not limited to, devices using light scattering and other effects, shall be installed, operated, adjusted, and maintained in a manner consistent with the manufacturer's written specifications and recommendations.
  - b. The bag leak detection system shall be certified by the manufacturer to be capable of detecting PE emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grain per actual cubic foot) or less.
  - c. The bag leak detection system sensor shall produce an output of relative particulate emissions.
  - d. The bag leak detection system shall be equipped with an alarm system that will sound automatically when an increase in relative PE emissions over a preset level is detected and the alarm shall be located such that it can be heard by the appropriate plant personnel.
  - e. The bag leak detection system shall be installed downstream of the baghouse. Where multiple bag leak detection systems are required, the system instrumentation and alarm may be shared among the monitors.
  - f. Initial adjustment of the system shall, at a minimum, consist of establishing the baseline output by adjusting the range and the averaging period of the device and establishing the alarm set points and the alarm delay time.
  - g. Following the initial adjustment, the permittee shall not adjust the range, averaging period, alarm set points, or alarm delay time. In no event shall the range be increased by more than 100 percent or decreased more than 50 percent over a 365-day period unless a responsible official certifies, by written report, that the baghouse has been inspected and found to be in good operating condition.

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The permittee shall maintain records of any bag leak detection system alarms, including the date and time of the alarm, when corrective actions were initiated, the cause of the alarm, an explanation of the corrective actions taken, and when the cause of the alarm was corrected.

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

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- a. all periods of time during which any bag leak detection system alarms were sounded. The reports shall include a summary of the date and time of the alarm(s), when corrective actions were initiated, the cause of the alarm(s), an explanation of the corrective actions taken, and when the cause of the alarm(s) was corrected.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

- (2) The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record showing that the baghouse was not in service when the emission unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.
- (3) The permittee shall submit quarterly 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 (the appropriate Ohio EPA District Office or local air agency) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous 3-month period.

- (4) The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.
- f) Testing Requirements
- (1) Compliance with the emission limitation(s) in b)(1) in this permit shall be determined according to the following methods:
- a. Emission Limitation:
- Visible PE shall not exceed 20% opacity, as a 6-minute average.
- Applicable Compliance Method:
- If required, compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-17-03(B)(1); or other U.S. EPA approved test method, with prior approval from the Ohio EPA.
- b. Emission Limitation:
- Visible PE shall not exceed 10% opacity, as a 6-minute average.
- Applicable Compliance Method;
- If required, compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-17-03(B)(1); or other U.S. EPA approved test method, with prior approval from the Ohio EPA.
- c. Emission Limitation:
- 5.38 pound of PE 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, using the methods and procedures specified in OAC rule 3745-17-03(B)(10), or other U.S. EPA-approved test method, with prior approval from the Ohio EPA.
- d. Emission Limitation:
- 0.80 pound of PM10 per ton of glass
- Applicable Compliance Method:
- If required, the permittee shall demonstrate compliance with this emission

limitation through emission testing performed in accordance with Methods 1 through 4 of 40 CFR Part 60, Appendix A and Methods 201 and 202 of 40 CFR Part 51, Appendix M, or other U.S. EPA-approved test method, with prior approval from the Ohio EPA.

e. Emission Limitation:

5.08 ton of PM10 per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.80 pound of PM10 per ton of glass by the maximum process rate of 1.45 tons of glass per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

f. Emission Limitation:

2.23 pounds of VOC per ton of glass

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 25 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-21-10, or other U.S. EPA-approved test method, with prior approval from the Ohio EPA.

g. Emission Limitation:

14.16 tons of VOC per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 2.23 pounds of VOC per ton of glass by the maximum process rate of 1.45 tons of glass per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

h. Emission Limitation:

0.27 pound of PE 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, using the methods and procedures specified in OAC rule 3745-17-03(B)(10), or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

i. Emission Limitation:

1.19 tons of PE per year

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 0.27 pound of PE per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

j. Emission Limitation:

0.0012 pound of SO<sub>2</sub> per hour

Applicable Compliance Method:

This emission limitation was established through calculations based on emission factors specified in U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2 dated 7/98, as follows: divide the emission factor of 0.6 pound of SO<sub>2</sub> emissions per million standard cubic feet by a heating value of 1020 Btu per standard cubic foot and multiply by the maximum heat input capacity of 2 mmBtu per hour.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04 or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

k. Emission Limitation:

0.006 ton of SO<sub>2</sub> per year

Applicable Compliance Method:

The emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.0012 pound of SO<sub>2</sub> per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

l. Emissions Limitation:

0.196 pound of NO<sub>x</sub> per hour

Applicable Compliance Method:

This emissions limit was established through calculations based on emission factors specified in U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 dated 7/98, as follows: divide the emission factor of 100 pounds of NO<sub>x</sub> emissions per mmscf by a

heating value of 1,020 Btu per standard cubic foot and multiply the result by the maximum heat input capacity of 2 mmBtu per hour.

If required, the permittee shall demonstrate compliance with the emission limitation through emission testing performed in accordance with Methods 1 through 4 and 7 of 40 CFR Part 60 Appendix A, or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

m. Emission Limitation:

0.86 ton of NO<sub>x</sub> per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.196 pound of NO<sub>x</sub> per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

n. Emission Limitation:

0.165 pound of CO per hour

Applicable Compliance Method:

This emissions limit was established through calculations based on emission factors specified in U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 Dated 7/98, as follows: divide the emission factor of 84 pounds of CO emissions per million standard cubic feet by a heating value of 1,020 Btu per standard cubic foot and multiply the result by the maximum heat input capacity of 2 mmBtu per hour.

If required, the permittee shall demonstrate compliance with the emission limitation through emission testing performed in accordance with Methods 1 through 4 and 10 of 40 CFR Part 60 Appendix A, or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

o. Emission Limitation:

0.73 ton of CO per year

Applicable Compliance Method:

The emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emissions rate of 0.165 pound of CO per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

- (2) Compliance with the combined emission limitation(s) in b)(1) for emissions units P061 through P064 shall be determined according to the following methods:

a. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 2.99 tons of CO per rolling, 12-month period.

Applicable Compliance Method:

This emission limitation was established by multiplying the emission factor specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 dated 7/98 (84 pounds of CO emissions per mmscf) by the actual volume of natural gas combusted in emissions units P061 through P064 per rolling, 12-month period (in mmscft, as recorded in d)(3) above), and then dividing by 2000 pounds per ton.

b. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 3.56 ton of NOx per rolling, 12-month period.

Applicable Compliance Method:

This emission limitation was established by multiplying the emission factor specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 dated 7/98 (100 pounds of NOx per mmscf) by the actual volume of natural gas combusted in emissions units P061 through P064 per rolling, 12-month period (in mmscft, as recorded in d)(3) above), and then dividing by 2000 pounds per ton.

c. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 11.34 tons of PM10 per rolling, 12-month period.

Applicable Compliance Method:

This emission limitation was established by multiplying the emission factor determined during the most recent stack test(s) which demonstrated compliance with this emission limitation for PM10 (in pounds PM10 per ton of glass throughput) by the throughput of glass fibers, in tons, for this emissions units per rolling, 12-month period (in tons, as recorded in d)(4) above). To this amount shall be added the corresponding emissions on a rolling, 12-month basis from emission units P061, P063, and P064.

d. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 0.02 ton SO<sub>2</sub>, per rolling, 12-month period.

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## Applicable Compliance Method:

This emission limitation was established by multiplying the emission factor specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2 dated 7/98 (0.6 pound of SO<sub>2</sub> per mmscf) by the actual volume of natural gas combusted in emissions units P061 through P064 per rolling, 12-month period (in mmscft, as recorded in d)(3) above), and then dividing by 2000 pounds per ton.

## e. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 33.63 tons of VOC per rolling, 12-month period.

## Applicable Compliance Method:

This emission limitation was established by multiplying the emission factor determined during the most recent stack test which demonstrated compliance with this emission limitation for VOC (in pounds VOC per ton of glass throughput) by the throughput of glass fibers, in tons, for this emissions units per rolling, 12-month period (in tons, as recorded in d)(4) above). To this amount shall be added the corresponding emissions on a rolling, 12-month basis from emission units P061, P063, and P064.

- (3) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted when required by the Toledo Division of Environmental Services or Ohio EPA Central Office.
  - b. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): For PM<sub>10</sub>, Methods 201 and 202 of 40 CFR Part 51, Appendix M. For VOC, Method 25 of 40 CFR Part 60 Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
  - c. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity and employing the product with the highest emissions level, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

The 3-hour average process weight rate, in tons of glass dried per hour, shall be determined during the stack testing to allow a determination of an emission factor in pounds of the regulated pollutant per ton of glass dried.

No later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the



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person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Toledo Division of Environmental Services or Ohio EPA Central Office's refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services or Ohio EPA Central Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report of the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Toledo Division of Environmental Services within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Toledo Division of Environmental Services or Ohio EPA Central Office.

- g) Miscellaneous Requirements
  - (1) None.



**3. P063, Direct Chop Oven & Classifier #3**

**Operations, Property and/or Equipment Description:**

Direct Chop Oven & Classifier #3 with baghouse

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) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(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. 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) (PTI P0104989 dated 9/14/2009)	Volatile organic compound (VOC) emissions shall not exceed 2.23 pounds per ton of glass and 14.16 tons per year. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001  (PTI 04-01345 as modified by P0104989 dated 9/14/2009)	Filterable particulate emissions (PE) shall not exceed 0.27 pound per hour and 1.19 tons per year. Sulfur dioxide (SO <sub>2</sub> ) emissions shall not exceed 0.0012 pound per hour and 0.006 ton per year. Nitrogen oxides (NO <sub>x</sub> ) shall not exceed 0.196 pound per hour and 0.86 ton per year. Carbon monoxide (CO) shall not exceed 0.165 pound per hour and 0.73 ton per year. See b)(2)f. and b)(2)g.
c.	OAC rule 3745-17-07(A)(1)	Visible PE shall not exceed 20% opacity, as a 6-minute average unless otherwise specified by the rules.  See b)(2)h.
d.	OAC rule 3745-17-11(B)(1)	PE shall not exceed 5.38 pounds per hour.  See b)(2)h.
e.	OAC rule 3745-31-05(D)	See b)(2)b. and b)(2)c.
f.	OAC rules 3745-31-10 thru 20 (PTI 04-01345 as modified by	Particulate matter emission of less than or equal to 10 microns in diameter (PM <sub>10</sub> )



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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	P0104989 dated 9/14/2009)	shall not exceed 0.70 pounds per ton of glass and 4.46 tons per year.
g.	OAC rule 3745-31-05(A)(3)(a)(ii)	See b)(2)d. and b)(2)e.

(2) Additional Terms and Conditions

- a. These emission limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.
- b. Combined annual emissions from P061 through P064 shall not exceed 0.020 ton of SO<sub>2</sub>, 2.99 tons of CO, 3.56 tons of NO<sub>x</sub>, and 33.63 tons of VOC per rolling, 12-month period.
- c. The combined emissions of PM<sub>10</sub> from P061 through P064 shall not exceed 11.34 tons as a rolling, 12-month summation.
- d. 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 CO, NO<sub>x</sub>, and SO<sub>2</sub> emissions from this air contaminant source since the uncontrolled potential to emit for CO, NO<sub>x</sub>, and SO<sub>2</sub> is each less than 10 tons/year.
- e. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP.  
  
The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE and PM<sub>10</sub> emissions from this air contaminant source since the calculated annual emission rate for PE and PM<sub>10</sub> is each less than 10 tons/year, taking into account the baghouse required by the federally enforceable rule limit of 4.46 tons of PM<sub>10</sub> per year under OAC rule 3745-31-10 through 20.
- f. The hourly and annual emission limitation for CO, NO<sub>x</sub>, PE, and SO<sub>2</sub> were established for permitting purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.
- g. Visible PE from the stacks serving this emissions unit shall not exceed 10% opacity, as a 6-minute average.
- h. The PE requirements established by this rule are less stringent than the requirements established under OAC rule 3745-31-05(A)(3)(a). On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer

required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US 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 US EPA approves the December 1, 2006 version of 3745-31-05, then the requirements of OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B) and all associated terms and conditions become effective.

c) Operational Restrictions

- (1) The permittee shall burn only natural gas in this emissions unit.
- (2) The permittee shall operate the baghouse whenever this emissions unit is in operation.
- (3) The combined volume of natural gas combusted in emissions units P061 through P064 shall not exceed 71.106 mmscf per rolling, 12-month period.
- (4) The combined throughput of glass fibers in emissions units P061 through P064 shall not exceed 30,165.2 tons per rolling, 12-month period.
- (5) The permittee shall initiate corrective action within 1 hour of an alarm from a bag leak detection system and complete corrective actions in a timely manner. Example corrective actions may include:
  - a. inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other conditions that may cause an increase in emissions;
  - b. sealing off defective bags or filter media;
  - c. replacing defective bags or filter media, or otherwise repairing the control device;
  - d. sealing off a defective baghouse compartment;
  - e. cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system; and
  - f. shutting down the process producing the particulate emissions.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- (2) The permittee shall maintain daily records that document any time periods when the baghouse was not in service when the emissions unit was in operation.
- (3) The permittee shall maintain records, on a monthly basis, of the combined volume of natural gas combusted, in mmscf, in emissions units P061 through P064 as a rolling, 12-month summation.

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- (4) The permittee shall maintain records, on a monthly basis, of the throughput of glass fibers, in tons, for this emissions unit as a rolling, 12-month summation.
- (5) The permittee shall maintain records, on a monthly basis, of the rolling, 12-month emissions of PM<sub>10</sub> from emission units P061 through P064, as calculated in f)(2)c.
- (6) The permittee shall maintain records, on a monthly basis, of the combined throughput of glass fibers, in tons, for emissions units P061 through P064 as a rolling, 12-month summation.
- (7) The permittee shall install, calibrate, maintain, and continuously operate a bag leak detection system.
  - a. A triboelectric bag leak detection system shall be installed, operated, adjusted, and maintained in a manner consistent with the U.S. Environmental Protection Agency guidance, "Fabric Filter Bag Leak Detection Guidance" (EPA-454/R-98-015, September 1997). Other bag leak detection systems including, but not limited to, devices using light scattering and other effects, shall be installed, operated, adjusted, and maintained in a manner consistent with the manufacturer's written specifications and recommendations.
  - b. The bag leak detection system shall be certified by the manufacturer to be capable of detecting PE emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grain per actual cubic foot) or less.
  - c. The bag leak detection system sensor shall produce an output of relative particulate emissions.
  - d. The bag leak detection system shall be equipped with an alarm system that will sound automatically when an increase in relative PE emissions over a preset level is detected and the alarm shall be located such that it can be heard by the appropriate plant personnel.
  - e. The bag leak detection system shall be installed downstream of the baghouse. Where multiple bag leak detection systems are required, the system instrumentation and alarm may be shared among the monitors.
  - f. Initial adjustment of the system shall, at a minimum, consist of establishing the baseline output by adjusting the range and the averaging period of the device and establishing the alarm set points and the alarm delay time.
  - g. Following the initial adjustment, the permittee shall not adjust the range, averaging period, alarm set points, or alarm delay time. In no event shall the range be increased by more than 100 percent or decreased more than 50 percent over a 365-day period unless a responsible official certifies, by written report, that the baghouse has been inspected and found to be in good operating condition.

The permittee shall maintain records of any bag leak detection system alarms, including the date and time of the alarm, when corrective actions were initiated, the cause of the

alarm, an explanation of the corrective actions taken, and when the cause of the alarm was corrected.

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

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
  - a. all periods of time during which any bag leak detection system alarms were sounded. The reports shall include a summary of the date and time of the alarm(s), when corrective actions were initiated, the cause of the alarm(s), an explanation of the corrective actions taken, and when the cause of the alarm(s) was corrected.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

- (2) The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record showing that the baghouse was not in service when the emission unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.
- (3) The permittee shall submit quarterly 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 (the appropriate Ohio EPA District Office or local air agency) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous 3-month period.

- (4) The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.



f) Testing Requirements

(1) Compliance with the emission limitation(s) in b)(1) in this permit shall be determined according to the following methods:

a. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-17-03(B)(1); or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

b. Emission Limitation:

Visible PE shall not exceed 10% opacity, as a 6-minute average.

Applicable Compliance Method;

If required, compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-17-03(B)(1); or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

c. Emission Limitation:

5.38 pound of PE 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, using the methods and procedures specified in OAC rule 3745-17-03(B)(10), or other U.S. EPA-approved test method, with prior approval from the Ohio EPA.

d. Emission Limitation:

0.70 pound of PM10 per ton of glass

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 of 40 CFR Part 60, Appendix A and Methods 201 and 202 of 40 CFR

Part 51, Appendix M, or other U.S. EPA-approved test method, with prior approval from the Ohio EPA.

e. Emission Limitation:

4.46 ton of PM10 per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.70 pound of PM10 per ton of glass by the maximum process rate of 1.45 tons of glass per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

f. Emission Limitation:

2.23 pounds of VOC per ton of glass

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 25 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-21-10, or other U.S. EPA-approved test method, with prior approval from the Ohio EPA.

g. Emission Limitation:

14.16 tons of VOC per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 2.23 pounds of VOC per ton of glass by the maximum process rate of 1.45 tons of glass per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

h. Emission Limitation:

0.27 pound of PE 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, using the methods and procedures specified in OAC rule 3745-17-03(B)(10), or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

i. Emission Limitation:

1.19 tons of PE per year

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 0.27 pound of PE per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

j. Emission Limitation:

0.0012 pound of SO<sub>2</sub> per hour

Applicable Compliance Method:

This emission limitation was established through calculations based on emission factors specified in U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2 dated 7/98, as follows: divide the emission factor of 0.6 pound of SO<sub>2</sub> emissions per million standard cubic feet by a heating value of 1020 Btu per standard cubic foot and multiply by the maximum heat input capacity of 2 mMBtu per hour.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04 or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

k. Emission Limitation:

0.006 ton of SO<sub>2</sub> per year

Applicable Compliance Method:

The emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.0012 pound of SO<sub>2</sub> per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

l. Emission Limitation:

0.196 pound of NO<sub>x</sub> per hour

Applicable Compliance Method:

This emission limit was established through calculations based on emission factors specified in U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 dated 7/98, as follows: divide the emission factor of 100 pounds of NO<sub>x</sub> emissions per mmscf by a

heating value of 1,020 Btu per standard cubic foot and multiply the result by the maximum heat input capacity of 2 mmBtu per hour.

If required, the permittee shall demonstrate compliance with the emission limitation through emission testing performed in accordance with Methods 1 through 4 and 7 of 40 CFR part 60 Appendix A, or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

m. Emission Limitation:

0.86 ton of NO<sub>x</sub> per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.196 pound of NO<sub>x</sub> per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

n. Emission Limitation:

0.165 pound of CO per hour

Applicable Compliance Method:

This emission limitation was established through calculations based on emission factors specified in U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 dated 7/98, as follows: divide the emission factor of 84 pounds of CO emissions per million standard cubic feet by a heating value of 1,020 Btu per standard cubic foot and multiply the result by the maximum heat input capacity of 2 mmBtu per hour.

If required, the permittee shall demonstrate compliance with the emission limitation through emission testing performed in accordance with Methods 1 through 4 and 10 of 40 CFR Part 60 Appendix A, or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

o. Emission Limitation:

0.73 ton of CO per year

Applicable Compliance Method:

The emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.165 pound of CO per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

- (2) Compliance with the combined emission limitation(s) in b)(1) for emissions units P061 through P064 shall be determined according to the following methods:

a. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 2.99 tons of CO per rolling, 12-month period.

Applicable Compliance Method:

The emission limitation was established by multiplying the emission factor specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 dated 7/98 (84 pounds of CO emissions per mmscf) by the actual volume of natural gas combusted in emissions units P061 through P064 per rolling, 12-month period (in mmscft, as recorded in d)(3) above), and then dividing by 2000 pounds per ton.

b. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 3.56 ton of NOx per rolling, 12-month period.

Applicable Compliance Method:

The emission limitation was established by multiplying the emission factor specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 dated 7/98 (100 pounds of NOx per mmscf) by the actual volume of natural gas combusted in emissions units P061 through P064 per rolling, 12-month period (in mmscft, as recorded in d)(3) above), and then dividing by 2000 pounds per ton.

c. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 11.34 tons of PM10 per rolling, 12-month period.

Applicable Compliance Method:

The emission limitation was established by multiplying the emission factor determined during the most recent stack test(s) which demonstrated compliance with this emission limitation for PM10 (in pounds PM10 per ton of glass throughput) by the throughput of glass fibers, in tons, for this emissions units per rolling, 12-month period (in tons, as recorded in d)(4) above). To this amount shall be added the corresponding emissions on a rolling, 12-month basis from emission units P061, P062, and P064.

d. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 0.02 ton SO<sub>2</sub>, per rolling, 12-month period.

Applicable Compliance Method:

The emission limitation was established by multiplying the emission factor

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specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2 dated 7/98 (0.6 pound of SO<sub>2</sub> per mmscf) by the actual volume of natural gas combusted in emissions units P061 through P064 per rolling, 12-month period (in mmscf, as recorded in d)(3) above), and then dividing by 2000 pounds per ton.

e. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 33.63 tons of VOC per rolling, 12-month period.

Applicable Compliance Method:

The emission limitation was established by multiplying the emission factor determined during the most recent stack test which demonstrated compliance with this emission limitation for VOC (in pounds VOC per ton of glass throughput) by the throughput of glass fibers, in tons, for this emissions units per rolling, 12-month period (in tons, as recorded in d)(4) above). To this amount shall be added the corresponding emissions on a rolling, 12-month basis from emission units P061, P062, and P064.

- (3) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted when required by the Toledo Division of Environmental Services or Ohio EPA Central Office.
  - b. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): For PM<sub>10</sub>, Methods 201 and 202 of 40 CFR Part 51, Appendix M. For VOC, Method 25 of 40 CFR Part 60 Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
  - c. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity and employing the product with the highest emissions level, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

The 3-hour average process weight rate, in tons of glass dried per hour, shall be determined during the stack testing to allow a determination of an emission factor in pounds of the regulated pollutant per ton of glass dried.

No later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Toledo Division of Environmental Services or Ohio EPA Central Office's refusal to accept the results of the emission test(s).



Personnel from the Toledo Division of Environmental Services or Ohio EPA Central Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report of the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Toledo Division of Environmental Services within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Toledo Division of Environmental Services or Ohio EPA Central Office.

g) Miscellaneous Requirements

- (1) None.



**4. P064, Direct Chop Oven & Classifier #4**

**Operations, Property and/or Equipment Description:**

Direct Chop Oven & Classifier #4 with baghouse

- 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) None.
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operations(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. 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) (PTI P0104989 dated 9/14/2009)	Volatile organic compound (VOC) emissions shall not exceed 2.23 pounds per ton of glass and 14.16 tons per year. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001  (PTI 04-01345 as modified by P0104989 dated 9/14/2009)	Filterable particulate emissions (PE) shall not exceed 0.27 pound per ton of glass and 1.19 tons per year. Sulfur dioxide (SO <sub>2</sub> ) emissions shall not exceed 0.0012 pound per hour and 0.006 ton per year. Nitrogen oxides (NO <sub>x</sub> ) shall not exceed 0.165 pound per hour and 0.006 ton per year. Carbon monoxide (CO) shall not exceed 0.165 pound per hour and 0.73 ton per year. See b)(2)f. and b)(2)g.
c.	OAC rule 3745-17-07(A)(1)	Visible PE shall not exceed 20% opacity, as a 6-minute average unless otherwise specified by the rules.  See b)(2)h.
d.	OAC rule 3745-17-11(B)(1)	PE shall not exceed 5.38 pounds per hour.  See b)(2)h.
f.	OAC rule 3745-31-05(D)	See b)(2)b. and b)(2)c.
g.	OAC rules 3745-31-10 thru 20 (PTI 04-01345 as modified by	Particulate matter emission of less than or equal to 10 microns in diameter (PM <sub>10</sub> )



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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	P0104989 dated 9/14/2009)	shall not exceed 0.80 pounds per ton of glass and 5.08 tons per year.
h.	OAC rule 3745-31-05(A)(3)(a)(ii)	See b)(2)d. and b)(2)e.

(2) Additional Terms and Conditions

- a. These emission limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.
- b. Combined annual emissions from P061 through P064 shall not exceed 0.020 ton of SO<sub>2</sub>, 2.99 tons of CO, 3.56 tons of NO<sub>x</sub>, and 33.63 tons of VOC per rolling, 12-month period.
- c. The combined emissions of PM<sub>10</sub> from P061 through P064 shall not exceed 11.34 tons as a rolling, 12-month summation.
- d. 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 CO, NO<sub>x</sub>, and SO<sub>2</sub> emissions from this air contaminant source since the uncontrolled potential to emit for CO, NO<sub>x</sub>, and SO<sub>2</sub> is each less than 10 tons/year.
- e. This rule paragraph applies once the U.S. EPA approves the December 1, 2006 version of the OAC rule 3745-31-05 as part of the SIP.  
  
The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE and PM<sub>10</sub> emissions from this air contaminant source since the calculated annual emission rate for PE and PM<sub>10</sub> is each less than 10 tons/year, taking into account the baghouse required by the operational restriction.
- f. The hourly and annual emission limitations for CO, NO<sub>x</sub>, PE, and SO<sub>2</sub> were established for permitting purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.
- g. Visible PE from the stacks serving this emissions unit shall not exceed 10% opacity, as a 6-minute average.
- h. The PE requirements established by this rule are less stringent than the requirements established under OAC rule 3745-31-05(A)(3)(a). On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year.

However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US 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 US EPA approves the December 1, 2006 version of 3745-31-05, then the requirements of OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B) and all associated terms and conditions become effective.

c) Operational Restrictions

- (1) The permittee shall burn only natural gas in this emissions unit.
- (2) The permittee shall operate the baghouse whenever this emissions unit is in operation.
- (3) The combined volume of natural gas combusted in emissions units P061 through P064 shall not exceed 71.106 mmscf per rolling, 12-month period.
- (4) The combined throughput of glass fibers in emissions units P061 through P064 shall not exceed 30,165.2 tons per rolling, 12-month period.
- (5) The permittee shall initiate corrective action within 1 hour of an alarm from a bag leak detection system and complete corrective actions in a timely manner. Example corrective actions may include:
  - a. inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other conditions that may cause an increase in emissions;
  - b. sealing off defective bags or filter media;
  - c. replacing defective bags or filter media, or otherwise repairing the control device;
  - d. sealing off a defective baghouse compartment;
  - e. cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system; and
  - f. shutting down the process producing the particulate emissions.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- (2) The permittee shall maintain daily records that document any time periods when the baghouse was not in service when the emissions unit was in operation.
- (3) The permittee shall maintain records, on a monthly basis, of the combined volume of natural gas combusted, in mmscf, in emissions units P061 through P064 as a rolling, 12-month summation.

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- (4) The permittee shall maintain records, on a monthly basis, of the throughput of glass fibers, in tons, for this emissions unit as a rolling, 12-month summation.
- (5) The permittee shall maintain records, on a monthly basis, of the rolling, 12-month emissions of PM<sub>10</sub> from emission units P061 through P064, as calculated in f)(2)c.
- (6) The permittee shall maintain records, on a monthly basis, of the combined throughput of glass fibers, in tons, for emissions units P061 through P064 as a rolling, 12-month summation.
- (7) The permittee shall install, calibrate, maintain, and continuously operate a bag leak detection system.
  - a. A triboelectric bag leak detection system shall be installed, operated, adjusted, and maintained in a manner consistent with the U.S. Environmental Protection Agency guidance, "Fabric Filter Bag Leak Detection Guidance" (EPA-454/R-98-015, September 1997). Other bag leak detection systems including, but not limited to, devices using light scattering and other effects, shall be installed, operated, adjusted, and maintained in a manner consistent with the manufacturer's written specifications and recommendations.
  - b. The bag leak detection system shall be certified by the manufacturer to be capable of detecting PE emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grain per actual cubic foot) or less.
  - c. The bag leak detection system sensor shall produce an output of relative particulate emissions.
  - d. The bag leak detection system shall be equipped with an alarm system that will sound automatically when an increase in relative PE emissions over a preset level is detected and the alarm shall be located such that it can be heard by the appropriate plant personnel.
  - e. The bag leak detection system shall be installed downstream of the baghouse. Where multiple bag leak detection systems are required, the system instrumentation and alarm may be shared among the monitors.
  - f. Initial adjustment of the system shall, at a minimum, consist of establishing the baseline output by adjusting the range and the averaging period of the device and establishing the alarm set points and the alarm delay time.
  - g. Following the initial adjustment, the permittee shall not adjust the range, averaging period, alarm set points, or alarm delay time. In no event shall the range be increased by more than 100 percent or decreased more than 50 percent over a 365-day period unless a responsible official certifies, by written report, that the baghouse has been inspected and found to be in good operating condition.

The permittee shall maintain records of any bag leak detection system alarms, including the date and time of the alarm, when corrective actions were initiated, the cause of the

alarm, an explanation of the corrective actions taken, and when the cause of the alarm was corrected.

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

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- a. all periods of time during which any bag leak detection system alarms were sounded. The reports shall include a summary of the date and time of the alarm(s), when corrective actions were initiated, the cause of the alarm(s), an explanation of the corrective actions taken, and when the cause of the alarm(s) was corrected.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

- (2) The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record showing that the baghouse was not in service when the emission unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.
- (3) The permittee shall submit quarterly 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 (the appropriate Ohio EPA District Office or local air agency) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous 3-month period.

- (4) The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

f) Testing Requirements

(1) Compliance with the emission limitation(s) in b)(1) in this permit shall be determined according to the following methods:

a. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-17-03(B)(1); or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

b. Emission Limitation:

Visible PE shall not exceed 10% opacity, as a 6-minute average.

Applicable Compliance Method;

If required, compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-17-03(B)(1); or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

c. Emission Limitation:

5.38 pound of PE 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, using the methods and procedures specified in OAC rule 3745-17-03(B)(10), or other U.S. EPA-approved test method, with prior approval from the Ohio EPA.

d. Emission Limitation:

0.80 pound of PM10 per ton of glass

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 of 40 CFR Part 60, Appendix A and Methods 201 and 202 of 40 CFR

Part 51, Appendix M, or other U.S. EPA-approved test method, with prior approval from the Ohio EPA.

e. Emission Limitation:

5.08 ton of PM10 per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.80 pound of PM10 per ton of glass by the maximum process rate of 1.45 tons of glass per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

f. Emission Limitation:

2.23 pounds of VOC per ton of glass

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 25 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-21-10, or other U.S. EPA-approved test method, with prior approval from the Ohio EPA.

g. Emission Limitation:

14.16 tons of VOC per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 2.23 pounds of VOC per ton of glass by the maximum process rate of 1.45 tons of glass per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

h. Emission Limitation:

0.27 pound of PE 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, using the methods and procedures specified in OAC rule 3745-17-03(B)(10), or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

i. Emission Limitation:

1.19 tons of PE per year

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 0.27 pound of PE per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

j. Emission Limitation:

0.0012 pound of SO<sub>2</sub> per hour

Applicable Compliance Method:

This emission limitation was established through calculations based on emission factors specified in U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2 dated 7/98, as follows: divide the emission factor of 0.6 pound of SO<sub>2</sub> emissions per million standard cubic feet by a heating value of 1020 Btu per standard cubic foot and multiply by the maximum heat input capacity of 2 mMBtu per hour.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 6 of 40 CFR part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04 or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

k. Emission Limitation:

0.006 ton of SO<sub>2</sub> per year

Applicable Compliance Method:

The emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.0012 pound of SO<sub>2</sub> per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

l. Emission Limitation:

0.196 pound of NO<sub>x</sub> per hour

Applicable Compliance Method:

This emission limitation was established through calculations based on emission factors specified in U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 dated 7/98, as follows: divide the emission factor of 100 pounds of NO<sub>x</sub> emissions per mmscf by a

heating value of 1,020 Btu per standard cubic foot and multiply the result by the maximum heat input capacity of 2 mmBtu per hour.

If required, the permittee shall demonstrate compliance with the emission limitation through emission testing performed in accordance with Methods 1 through 4 and 7 of 40 CFR Part 60 Appendix A, or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

m. Emission Limitation:

0.86 ton of NO<sub>x</sub> per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.196 pound of NO<sub>x</sub> per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

n. Emissions Limitation:

0.165 pound of CO per hour

Applicable Compliance Method:

This emission limitation was established through calculations based on emission factors specified in U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 dated 7/98, as follows: divide the emission factor of 84 pounds of CO emissions per million standard cubic feet by a heating value of 1,020 Btu per standard cubic foot and multiply the result by the maximum heat input capacity of 2 mmBtu per hour.

If required, the permittee shall demonstrate compliance with the emission limitation through emission testing performed in accordance with Methods 1 through 4 and 6 of 40 CFR part 60 Appendix A, or other U.S. EPA approved test method, with prior approval from the Ohio EPA.

o. Emission Limitation:

0.73 ton of CO per year

Applicable Compliance Method:

The emission limitation was established to reflect the potential to emit for the emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.165 pound of CO per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

- (2) Compliance with the combined emission limitation(s) in b)(1) for emissions units P061 through P064 shall be determined according to the following methods:

a. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 2.99 tons of CO per rolling, 12-month period.

Applicable Compliance Method:

The emission limitation was established by multiplying the emission factor specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 dated 7/98 (84 pounds of CO emissions per mmscf) by the actual volume of natural gas combusted in emissions units P061 through P064 per rolling, 12-month period (in mmscft, as recorded in d)(3) above), and then dividing by 2000 pounds per ton.

b. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 3.56 ton of NOx per rolling, 12-month period.

Applicable Compliance Method:

The emission limitation was established by multiplying the emission factor specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1 dated 7/98 (100 pounds of NOx per mmscf) by the actual volume of natural gas combusted in emissions units P061 through P064 per rolling, 12-month period (in mmscft, as recorded in d)(3) above), and then dividing by 2000 pounds per ton.

c. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 11.34 tons of PM10 per rolling, 12-month period.

Applicable Compliance Method:

The emission limitation was established by multiplying the emission factor determined during the most recent stack test(s) which demonstrated compliance with this emission limitation for PM10 (in pounds PM10 per ton of glass throughput) by the throughput of glass fibers, in tons, for this emissions units per rolling, 12-month period (in tons, as recorded in d)(4) above). To this amount shall be added the corresponding emissions on a rolling, 12-month basis from emission units P061 through P063.

d. Emission Limitation:

The combined emissions from P061 through P064 shall not exceed 0.02 ton SO<sub>2</sub>, per rolling, 12-month period.

**Applicable Compliance Method:**

The emission limitation was established by multiplying the emission factor specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2 dated 7/98 (0.6 pound of SO<sub>2</sub> per mmscf) by the actual volume of natural gas combusted in emissions units P061 through P064 per rolling, 12-month period (in mmscft, as recorded in d)(3) above), and then dividing by 2000 pounds per ton.

**e. Emission Limitation:**

The combined emissions from P061 through P064 shall not exceed 33.63 tons of VOC per rolling, 12-month period.

**Applicable Compliance Method:**

The emission limitation was established by multiplying the emission factor determined during the most recent stack test which demonstrated compliance with this emission limitation for VOC (in pounds VOC per ton of glass throughput) by the throughput of glass fibers, in tons, for this emissions units per rolling, 12-month period (in tons, as recorded in d)(4) above). To this amount shall be added the corresponding emissions on a rolling, 12-month basis from emission units P061 through P063.

- (3) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted when required by the Toledo Division of Environmental Services or Ohio EPA Central Office.
  - b. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): For PM<sub>10</sub>, Methods 201 and 202 of 40 CFR Part 51, Appendix M. For VOC, Method 25 of 40 CFR Part 60 Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
  - c. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity and employing the product with the highest emissions level, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

The 3-hour average process weight rate, in tons of glass dried per hour, shall be determined during the stack testing to allow a determination of an emission factor in pounds of the regulated pollutant per ton of glass dried.

No later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the



person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Toledo Division of Environmental Services or Ohio EPA Central Office's refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services or Ohio EPA Central Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report of the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Toledo Division of Environmental Services within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Toledo Division of Environmental Services or Ohio EPA Central Office.

- g) Miscellaneous Requirements
  - (1) None.