



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
FRANKLIN COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 01-12065

Fac ID: 0125122188

DATE: 9/12/2006

DuPont Powder Coatings USA Inc
Denielle Conner
4130 Lyman Court
Hilliard, OH 43026

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

Sincerely,

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

CC: USEPA

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 9/12/2006
Effective Date: 9/12/2006**

FINAL PERMIT TO INSTALL 01-12065

Application Number: 01-12065
Facility ID: 0125122188
Permit Fee: **\$600**
Name of Facility: DuPont Powder Coatings USA Inc
Person to Contact: Denielle Conner
Address: 4130 Lyman Court
Hilliard, OH 43026

Location of proposed air contaminant source(s) [emissions unit(s)]:
**4130 Lyman Court
Hilliard, Ohio**

Description of proposed emissions unit(s):
Mill, cyclone, screen, pneumatic transport, dust collector, hood/hose connectors.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

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the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

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

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

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

11. Applicability

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

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
PM	41.1

Emissions Unit ID: P001

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

A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (P001) - Batch Scales and Quality Control Laboratory (installed prior to August 3, 2006)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05 (Modification to PTI 01-08591, issued May 28, 2002)	Particulate emissions (PE) shall not exceed 0.96 lb/hr and 4.2 ton/yr from the NDC-4 baghouse.
	Compliance with this rule also includes compliance with the requirements of OAC rules 3745-17-07 (A)(1)(a).
OAC rule 3745-17-07(A)(1)(a)	Visible particulate emissions shall not exceed twenty percent opacity, as a six minute average.
OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- The emission unit's 0.96 lb PE/hr and 4.2 ton PE/yr emission limitations are based on the emission unit's potential to emit vented through the dust collection system (baghouse). Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.

B. Operational Restrictions

- The permittee shall operate the dust collection system (baghouse) at all times this emission unit is in operation.
- The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.

Issued: 9/12/2006

Emissions Unit ID: **P001**

Issued: 9/12/2006

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation, and when weather conditions allow, for any visible particulate emissions (excluding uncombined water vapor) from the fabric filter 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the fabric filter serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission limitation:
Particulate emissions (PE) shall not exceed 0.96 lb/hr and 4.2 ton/yr from the

Emissions Unit ID: P001

NDC-4 baghouse.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collector (0.02 gr/dscf) by the air flow capacity of the dust collection system (5600 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound. The annual emission limitation shall be determined by multiplying the hourly emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

Emissions:

$$0.02 \text{ gr/dscf} * 5600 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.96 \text{ lb PE/hr}$$
$$0.96 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 4.2 \text{ ton PE/yr}$$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted to demonstrate compliance with the 0.02 gr/dscf.
 - ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- b. Emission limitation:
Visible particulate emissions shall not exceed 20 % opacity, as a six-minute average.

Applicable compliance method:

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

F. Miscellaneous Requirements

Issued: 9/12/2006

1. The terms and conditions contained within this PTI shall supersede the terms and conditions previously contained in PTI 01-08591 issued on May 28, 2002.

Issued: 9/12/2006

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment - (P002) - Bowl Mixers and Chutes (installed prior to August 3, 2006)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05 (Modification to PTI 01-08591, issued May 28, 2002)	Particulate emissions (PE) shall not exceed 1.97 lb/hr and 8.63 ton/yr from the NDC-1 baghouse.
	Compliance with this rule also includes compliance with the requirements of OAC rules 3745-17-07 (A)(1)(a).
OAC rule 3745-17-07(A)(1)(a)	Visible particulate emissions shall not exceed twenty percent opacity, as a six minute average.
OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a The emission unit's 1.97 lb PE/hr and 8.63 ton PE/yr emission limitations are based on the emission unit's potential to emit vented through the dust collection system (baghouse). Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.

B. Operational Restrictions

1. The permittee shall operate the dust collection system (baghouse) at all times this emission unit is in operation.

Emissions Unit ID: **P002**

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2. The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.

Issued: 9/12/2006

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation, and when weather conditions allow, for any visible particulate emissions (excluding uncombined water vapor) from the fabric filter 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the fabric filter serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission limitation:
Particulate emissions (PE) shall not exceed 1.97 lb/hr and 8.63 ton/yr from the

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NDC-1 baghouse.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collector (0.02 gr/dscf) by the air flow capacity of the dust collection system (11,500 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound. The annual emission limitation shall be determined by multiplying the hourly emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

Emissions:

$$0.02 \text{ gr/dscf} * 11,500 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 1.97 \text{ lb PE/hr}$$
$$1.97 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 8.63 \text{ ton PE/yr}$$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted to demonstrate compliance with the 0.02 gr/dscf.
 - ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- b. Emission limitation:
Visible particulate emissions shall not exceed 20 % opacity, as a six-minute average.

Applicable compliance method:

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

F. Miscellaneous Requirements

Emissions Unit ID: **P002**

1. The terms and conditions contained within this PTI shall supersede the terms and conditions previously contained in PTI 01-08591 issued on May 28, 2002.

Issued: 9/12/2006

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment - (P003) - Grinder, Cyclone, Screen, Pneumatic Transport (ACM401) (installed prior to August 3, 2006)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05 (Modification to PTI 01-08591, issued May 28, 2002)	Particulate emissions (PE) shall not exceed 0.51 lb/hr and 2.25 ton/yr from the PDC-1 baghouse.
	Particulate emissions (PE) from P003, P004, P005, P006 and P007 shall not exceed 0.86 lb/hr and 3.75 ton/yr from the NDC-5 baghouse.
	Compliance with this rule also includes compliance with the requirements of OAC rules 3745-17-07 (A)(1)(a).
OAC rule 3745-17-07(A)(1)(a)	Visible particulate emissions from PDC-1 shall not exceed twenty percent opacity, as a six minute average.
	Visible particulate emissions from NDC-5 shall not exceed twenty percent opacity, as a six minute average.
OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a The emission unit's 0.51 lb PE/hr and 2.25 ton PE/yr emission limitations from PDC-1 are based on the emission unit's potential to emit vented through the dust collection system (baghouse). Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.

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- 2.b** The emission unit's 0.86 lb PE/hr and 3.75 ton PE/yr emission limitations from NDC-5 are based on the emission unit's potential to emit vented through the dust collection system (baghouse). Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.

B. Operational Restrictions

1. The permittee shall operate the PDC-1 dust collection system (baghouse) at all times this emission unit is in operation.
2. The permittee shall operate the NDC-5 dust collection system (baghouse) at all times this emission unit is in operation.
3. The pressure drop across baghouse PDC-1 shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.
4. The pressure drop across baghouse NDC-5 shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation, and when weather conditions allow, for any visible particulate emissions (excluding uncombined water vapor) from the fabric filters 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across baghouse PDC-1 while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.

Emissions Unit ID: **P003**

3. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across baghouse NDC-5 while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.

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D. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from fabric filter PDC-1 serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from fabric filter NDC-5 serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across baghouse PDC-1 did not comply with the allowable range specified above.
4. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across baghouse NDC-5 did not comply with the allowable range specified above.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission limitation:
Particulate emissions (PE) shall not exceed 0.51 lb/hr and 2.25 ton/yr from the PDC-1 baghouse.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collector (0.02 gr/dscf) by the air flow capacity of the dust collection system (3000 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound. The annual emission limitation shall be determined by multiplying the hourly emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

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Emissions:

 $0.02 \text{ gr/dscf} * 3000 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.51 \text{ lb PE/hr}$ $0.51 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 2.25 \text{ ton PE/yr}$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted to demonstrate compliance with the 0.02 gr/dscf.
 - ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- b. Emission limitation:
Particulate emissions (PE) from P003, P004, P005, P006 and P007 shall not exceed 0.86 lb/hr and 3.75 ton/yr from the NDC-5 baghouse.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collector (0.02 gr/dscf) by the air flow capacity of the dust collection system (5000 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound. The annual emission limitation shall be determined by multiplying the hourly emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

Emissions:

 $0.02 \text{ gr/dscf} * 5000 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.86 \text{ lb PE/hr}$ $0.86 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 3.75 \text{ ton PE/yr}$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

Emissions Unit ID: **P003**

- i. The emission testing shall be conducted to demonstrate compliance with the 0.02 gr/dscf.
 - ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- c. Emission limitation:
Visible particulate emissions from PDC-1 shall not exceed twenty percent opacity, as a six minute average.
- Applicable compliance method:
If required, compliance shall be demonstrated through visible emissions observation performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03 (B)(1).
- d. Emission limitation:
Visible particulate emissions from NDC-5 shall not exceed twenty percent opacity, as a six minute average.
- Applicable compliance method:
If required, compliance shall be demonstrated through visible emissions observation performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03 (B)(1).

F. Miscellaneous Requirements

1. The terms and conditions contained within this PTI shall supersede the terms and conditions previously contained in PTI 01-08591 issued on May 28, 2002.

Issued: 9/12/2006

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment - (P004) - Grinder, Cyclone, Screen, Pneumatic Transport (ACM402) (installed prior to August 3, 2006)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05 (Modification to PTI 01-08591, issued May 28, 2002)	Particulate emissions (PE) shall not exceed 0.51 lb/hr and 2.25 ton/yr from the PDC-2 baghouse.
	Particulate emissions (PE) from P003, P004, P005, P006 and P007 shall not exceed 0.86 lb/hr and 3.75 ton/yr from the NDC-5 baghouse.
	Compliance with this rule also includes compliance with the requirements of OAC rules 3745-17-07 (A)(1)(a).
OAC rule 3745-17-07(A)(1)(a)	Visible particulate emissions from PDC-2 shall not exceed twenty percent opacity, as a six minute average.
	Visible particulate emissions from NDC-5 shall not exceed twenty percent opacity, as a six minute average.
OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a The emission unit's 0.51 lb PE/hr and 2.25 ton PE/yr emission limitations from PDC-2 are based on the emission unit's potential to emit vented through the dust collection system (baghouse). Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.

Issued: 9/12/2006

- 2.b** The emission unit's 0.86 lb PE/hr and 3.75 ton PE/yr emission limitations from NDC-5 are based on the emission unit's potential to emit vented through the dust collection system (baghouse). Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.

B. Operational Restrictions

1. The permittee shall operate the PDC-2 dust collection system (baghouse) at all times this emission unit is in operation.
2. The permittee shall operate the NDC-5 dust collection system (baghouse) at all times this emission unit is in operation.
3. The pressure drop across baghouse PDC-2 shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.
4. The pressure drop across baghouse NDC-5 shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation, and when weather conditions allow, for any visible particulate emissions (excluding uncombined water vapor) from the fabric filters 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across baghouse PDC-2 while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.

Emissions Unit ID: **P004**

3. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across baghouse NDC-5 while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.

Issued: 9/12/2006

D. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from fabric filter PDC-2 serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from fabric filter NDC-5 serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across baghouse PDC-2 did not comply with the allowable range specified above.
4. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across baghouse NDC-5 did not comply with the allowable range specified above.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission limitation:
Particulate emissions (PE) shall not exceed 0.51 lb/hr and 2.25 ton/yr from the PDC-2 baghouse.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collector (0.02 gr/dscf) by the air flow capacity of the dust collection system (3000 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound. The annual emission limitation shall be determined by multiplying the hourly emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

Emissions Unit ID: **P004**

Emissions:

$$0.02 \text{ gr/dscf} * 3000 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.51 \text{ lb PE/hr}$$

$$0.51 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 2.25 \text{ ton PE/yr}$$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted to demonstrate compliance with the 0.02 gr/dscf.
 - ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- b. Emission limitation:
Particulate emissions (PE) from P003, P004, P005, P006 and P007 shall not exceed 0.86 lb/hr and 3.75 ton/yr from the NDC-5 baghouse.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collector (0.02 gr/dscf) by the air flow capacity of the dust collection system (5000 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound. The annual emission limitation shall be determined by multiplying the hourly emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

Emissions:

$$0.02 \text{ gr/dscf} * 5000 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.86 \text{ lb PE/hr}$$

$$0.86 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 3.75 \text{ ton PE/yr}$$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted to demonstrate compliance with

Emissions Unit ID: **P004**

the 0.02 gr/dscf.

- ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- c. Emission limitation:
Visible particulate emissions from PDC-2 shall not exceed twenty percent opacity, as a six minute average..
- Applicable compliance method:
If required, compliance shall be demonstrated through visible emissions observation performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03 (B)(1).
- d. Emission limitation:
Visible particulate emissions from NDC-5 shall not exceed twenty percent opacity, as a six minute average.
- Applicable compliance method:
If required, compliance shall be demonstrated through visible emissions observation performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03 (B)(1).

F. Miscellaneous Requirements

1. The terms and conditions contained within this PTI shall supersede the terms and conditions previously contained in PTI 01-08591 issued on May 28, 2002.

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment - (P005) - Grinder, Cyclone, Screen, Pneumatic Transport (ACM403) (installed prior to August 3, 2006)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05 (Modification to PTI 01-08591, issued May 28, 2002)	Particulate emissions (PE) shall not exceed 0.51 lb/hr and 2.25 ton/yr from the PDC-3 baghouse.
	Particulate emissions (PE) from P003, P004, P005, P006 and P007 shall not exceed 0.86 lb/hr and 3.75 ton/yr from the NDC-5 baghouse.
	Compliance with this rule also includes compliance with the requirements of OAC rules 3745-17-07 (A)(1)(a).
OAC rule 3745-17-07(A)(1)(a)	Visible particulate emissions from PDC-3 shall not exceed twenty percent opacity, as a six minute average.
	Visible particulate emissions from NDC-5 shall not exceed twenty percent opacity, as a six minute average.
OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a The emission unit's 0.51 lb PE/hr and 2.25 ton PE/yr emission limitations from PDC-3 are based on the emission unit's potential to emit vented through the dust collection system (baghouse). Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.

Emissions Unit ID: P005

- 2.b** The emission unit's 0.86 lb PE/hr and 3.75 ton PE/yr emission limitations from NDC-5 are based on the emission unit's potential to emit vented through the dust collection system (baghouse). Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.

B. Operational Restrictions

1. The permittee shall operate the PDC-3 dust collection system (baghouse) at all times this emission unit is in operation.
2. The permittee shall operate the NDC-5 dust collection system (baghouse) at all times this emission unit is in operation.
3. The pressure drop across baghouse PDC-3 shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.
4. The pressure drop across baghouse NDC-5 shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation, and when weather conditions allow, for any visible particulate emissions (excluding uncombined water vapor) from the fabric filters 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across baghouse PDC-3 while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.
3. The permittee shall properly install, operate, and maintain equipment to monitor the

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pressure drop across baghouse NDC-5 while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.

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D. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from fabric filter PDC-3 serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from fabric filter NDC-5 serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across baghouse PDC-3 did not comply with the allowable range specified above.
4. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across baghouse NDC-5 did not comply with the allowable range specified above.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission limitation:
Particulate emissions (PE) shall not exceed 0.51 lb/hr and 2.25 ton/yr from the PDC-3 baghouse.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collector (0.02 gr/dscf) by the air flow capacity of the dust collection system (3000 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound. The annual emission limitation shall be determined by multiplying the hourly emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

Emissions Unit ID: P005

Emissions:

$$0.02 \text{ gr/dscf} * 3000 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.51 \text{ lb PE/hr}$$

$$0.51 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 2.25 \text{ ton PE/yr}$$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted to demonstrate compliance with the 0.02 gr/dscf.
 - ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- b. Emission limitation:
Particulate emissions (PE) from P003, P004, P005, P006 and P007 shall not exceed 0.86 lb/hr and 3.75 ton/yr from the NDC-5 baghouse.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collector (0.02 gr/dscf) by the air flow capacity of the dust collection system (5000 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound. The annual emission limitation shall be determined by multiplying the hourly emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

Emissions:

$$0.02 \text{ gr/dscf} * 5000 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.86 \text{ lb PE/hr}$$

$$0.86 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 3.75 \text{ ton PE/yr}$$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted to demonstrate compliance with

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the 0.02 gr/dscf.

- ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- c. Emission limitation:
Visible particulate emissions from PDC-3 shall not exceed twenty percent opacity, as a six minute average.

Applicable compliance method:

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

- d. Emission limitation:
Visible particulate emissions from NDC-5 shall not exceed twenty percent opacity, as a six minute average.

Applicable compliance method:

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

F. Miscellaneous Requirements

1. The terms and conditions contained within this PTI shall supersede the terms and conditions previously contained in PTI 01-08591 issued on May 28, 2002.

Emissions Unit ID: P006

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment - (P006) - Grinder, cyclone, Screen, Pneumatic Transport (ACM5) (installed prior to August 3, 2006)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05 (Modification to PTI 01-08591, issued May 28, 2002)	Particulate emissions (PE) shall not exceed 0.09 lb/hr and 0.38 ton/yr from the PDC-4 baghouse.
	Particulate emissions (PE) from P003, P004, P005, P006 and P007 shall not exceed 0.86 lb/hr and 3.75 ton/yr from the NDC-5 baghouse.
	Compliance with this rule also includes compliance with the requirements of OAC rules 3745-17-07 (A)(1)(a).
OAC rule 3745-17-07(A)(1)(a)	Visible particulate emissions from PDC-4 shall not exceed twenty percent opacity, as a six minute average.
	Visible particulate emissions from NDC-5 shall not exceed twenty percent opacity, as a six minute average.
OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a The emission unit's 0.09 lb PE/hr and 0.38 ton PE/yr emission limitations from PDC-4 are based on the emission unit's potential to emit vented through the dust collection system (baghouse). Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.
- 2.b The emission unit's 0.86 lb PE/hr and 3.75 ton PE/yr emission limitations from NDC-5 are based on the emission unit's potential to emit vented through the

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dust collection system (baghouse). Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.

B. Operational Restrictions

1. The permittee shall operate the PDC-4 dust collection system (baghouse) at all times this emission unit is in operation.
2. The permittee shall operate the NDC-5 dust collection system (baghouse) at all times this emission unit is in operation.
3. The pressure drop across baghouse PDC-4 shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.
4. The pressure drop across baghouse NDC-5 shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation, and when weather conditions allow, for any visible particulate emissions (excluding uncombined water vapor) from the fabric filters 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across baghouse PDC-4 while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.
3. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across baghouse NDC-5 while the emissions unit is in operation. The

Emissions Unit ID: **P006**

monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.

Issued: 9/12/2006**D. Reporting Requirements**

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from fabric filter PDC-4 serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from fabric filter NDC-5 serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across baghouse PDC-4 did not comply with the allowable range specified above.
4. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across baghouse NDC-5 did not comply with the allowable range specified above.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission limitation:
Particulate emissions (PE) shall not exceed 0.09 lb/hr and 0.38 ton/yr from the PDC-4 baghouse

Applicable compliance method:
Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collector (0.02 gr/dscf) by the air flow capacity of the dust collection system (500 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound. The annual emission limitation shall be determined by multiplying the hourly emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

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Emissions:

 $0.02 \text{ gr/dscf} * 500 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.09 \text{ lb PE/hr}$ $0.09 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 0.38 \text{ ton PE/yr}$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted to demonstrate compliance with the 0.02 gr/dscf.
 - ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- b. Emission limitation:
Particulate emissions (PE) from P003, P004, P005, P006 and P007 shall not exceed 0.86 lb/hr and 3.75 ton/yr from the NDC-5 baghouse.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collector (0.02 gr/dscf) by the air flow capacity of the dust collection system (5000 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound. The annual emission limitation shall be determined by multiplying the hourly emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

Emissions:

 $0.02 \text{ gr/dscf} * 5000 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.86 \text{ lb PE/hr}$ $0.86 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 3.75 \text{ ton PE/yr}$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

Emissions Unit ID: **P006**

- i. The emission testing shall be conducted to demonstrate compliance with the 0.02 gr/dscf.
 - ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- c. Emission limitation:
Visible particulate emissions from PDC-4 shall not exceed twenty percent opacity, as a six minute average.
- Applicable compliance method:
If required, compliance shall be demonstrated through visible emissions observation performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03 (B)(1).
- d. Emission limitation:
Visible particulate emissions from NDC-5 shall not exceed twenty percent opacity, as a six minute average.
- Applicable compliance method:
If required, compliance shall be demonstrated through visible emissions observation performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03 (B)(1).

F. Miscellaneous Requirements

1. The terms and conditions contained within this PTI shall supersede the terms and conditions previously contained in PTI 01-08591 issued on May 28, 2002.

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment - (P007) - Grinder, Cyclone, Screen, Pneumatic Transport (ACM101-ACM102) (installed prior to August 3, 2006)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05 (Modification to PTI 01-08591, issued May 28, 2002)	Particulate emissions (PE) shall not exceed 0.12 lb/hr and 0.53 ton/yr from the PDC-5 baghouse.
	Particulate emissions (PE) shall not exceed 0.12 lb/hr and 0.53 ton/yr from the PDC-6 baghouse.
	Particulate emissions (PE) from P003, P004, P005, P006 and P007 shall not exceed 0.86 lb/hr and 3.75 ton/yr from the NDC-5 baghouse.
	Compliance with this rule also includes compliance with the requirements of OAC rules 3745-17-07 (A)(1)(a).
OAC rule 3745-17-07(A)(1)(a)	Visible particulate emissions from PDC-5 shall not exceed twenty percent opacity, as a six minute average.
	Visible particulate emissions from PDC-6 shall not exceed twenty percent opacity, as a six minute average.
	Visible particulate emissions from NDC-5 shall not exceed twenty percent opacity, as a six minute average.
OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a The emission unit's 0.12 lb PE/hr and 0.53 ton PE/yr emission limitations from PDC-5 are based on the emission unit's potential to emit vented through the dust

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collection system (baghouse). Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.

- 2.b** The emission unit's 0.12 lb PE/hr and 0.53 ton PE/yr emission limitations from PDC-6 are based on the emission unit's potential to emit vented through the dust collection system (baghouse). Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.
- 2.c** The emission unit's 0.86 lb PE/hr and 3.75 ton PE/yr emission limitations from NDC-5 are based on the emission unit's potential to emit vented through the dust collection system (baghouse). Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.

B. Operational Restrictions

1. The permittee shall operate the PDC-5 dust collection system (baghouse) at all times this emission unit is in operation.
2. The permittee shall operate the PDC-6 dust collection system (baghouse) at all times this emission unit is in operation.
3. The permittee shall operate the NDC-5 dust collection system (baghouse) at all times this emission unit is in operation.
4. The pressure drop across baghouse PDC-5 shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.
5. The pressure drop across baghouse PDC-6 shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.
6. The pressure drop across baghouse NDC-5 shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation, and when weather conditions allow, for any visible particulate emissions (excluding uncombined water vapor) from the fabric filters serving this emissions unit. The

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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. the total duration of any visible emission incident; and
- c. any corrective actions taken to eliminate the visible emissions.

2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across baghouse PDC-5 while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.

3. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across baghouse PDC-6 while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.

4. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across baghouse NDC-5 while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from fabric filter PDC-5 serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from fabric filter PDC-6 serving

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this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from fabric filter NDC-5 serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across baghouse PDC-5 did not comply with the allowable range specified above.
5. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across baghouse PDC-6 did not comply with the allowable range specified above.
6. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across baghouse NDC-5 did not comply with the allowable range specified above.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission limitation:
Particulate emissions (PE) shall not exceed 0.12 lb/hr and 0.53 ton/yr from the PDC-5 baghouse.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collector (0.02 gr/dscf) by the air flow capacity of the dust collection system (700 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound. The annual emission limitation shall be determined by multiplying the hourly emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

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Emissions:

$0.02 \text{ gr/dscf} * 700 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.12 \text{ lb PE/hr}$

$0.12 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 0.53 \text{ ton PE/yr}$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted to demonstrate compliance with the 0.02 gr/dscf.
 - ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- b. Emission limitation:
Particulate emissions (PE) shall not exceed 0.12 lb/hr and 0.53 ton/yr from the PDC-6 baghouse.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collector (0.02 gr/dscf) by the air flow capacity of the dust collection system (700 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound. The annual emission limitation shall be determined by multiplying the hourly emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

Emissions:

$0.02 \text{ gr/dscf} * 700 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.12 \text{ lb PE/hr}$

$0.12 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 0.53 \text{ ton PE/yr}$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted to demonstrate compliance with

Emissions Unit ID: P007

the 0.02 gr/dscf.

- ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- c. Emission limitation:
Particulate emissions (PE) from P003, P004, P005, P006 and P007 shall not exceed 0.86 lb/hr and 3.75 ton/yr from the NDC-5 baghouse.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collector (0.02 gr/dscf) by the air flow capacity of the dust collection system (5000 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound. The annual emission limitation shall be determined by multiplying the hourly emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

Emissions:

$$0.02 \text{ gr/dscf} * 5000 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.86 \text{ lb PE/hr}$$

$$0.86 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 3.75 \text{ ton PE/yr}$$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted to demonstrate compliance with the 0.02 gr/dscf.
- ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- iii. The test shall be conducted while the emissions unit is operating at or

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near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.

- d. Emission limitation:
Visible particulate emissions from PDC-5 shall not exceed twenty percent opacity, as a six minute average.

Applicable compliance method:

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

- e. Emission limitation:
Visible particulate emissions from PDC-6 shall not exceed twenty percent opacity, as a six minute average.

Applicable compliance method:

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

- f. Emission limitation:
Visible particulate emissions from NDC-5 shall not exceed twenty percent opacity, as a six minute average.

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Applicable compliance method:

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

F. Miscellaneous Requirements

1. The terms and conditions contained within this PTI shall supersede the terms and conditions previously contained in PTI 01-08591 issued on May 28, 2002.

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment - (P008) - Proprietary Design Ribbon Blenders (installed prior to August 3, 2006)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05 (Modification to PTI 01-08591, issued May 28, 2002)	Particulate emissions (PE) shall not exceed 0.96 lb/hr and 4.2 ton/yr from the NDC-2 baghouse.
	Compliance with this rule also includes compliance with the requirements of OAC rules 3745-17-07 (A)(1)(a).
OAC rule 3745-17-07(A)(1)(a)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six minute average.
OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a The emission unit's 0.96 lb PE/hr and 4.2 ton PE/yr emission limitations are based on the emission unit's potential to emit vented through the dust collection system (baghouse). Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.

B. Operational Restrictions

1. The permittee shall operate the dust collection system (baghouse) at all times this emission unit is in operation.

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2. The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.

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C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation, and when weather conditions allow, for any visible particulate emissions (excluding uncombined water vapor) from the fabric filter 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the fabric filter serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission limitation:
Particulate emissions (PE) shall not exceed 0.96 lb/hr and 4.2 ton/yr from the

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NDC-2 baghouse.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collector (0.02 gr/dscf) by the air flow capacity of the dust collection system (5600 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound. The annual emission limitation shall be determined by multiplying the hourly emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

Emissions:

$0.02 \text{ gr/dscf} * 5600 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.96 \text{ lb PE/hr}$

$0.96 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 4.2 \text{ ton PE/yr}$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted to demonstrate compliance with the 0.02 gr/dscf.
 - ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- b. Emission limitation:
Visible particulate emissions shall not exceed 20 % opacity, as a six-minute average.

Applicable compliance method:

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

F. Miscellaneous Requirements

1. The terms and conditions contained within this PTI shall supersede the terms and conditions previously contained in PTI 01-08591 issued on May 28, 2002.

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment - (P009) - Melting / Mixing Operation (installed prior to August 3, 2006)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05 (Modification to PTI 01-08591, issued May 28, 2002)	Particulate emissions (PE) shall not exceed 0.65 lb/hr and 2.85 ton/yr from the NDC-3 baghouse.
	Compliance with this rule also includes compliance with the requirements of OAC rules 3745-17-07 (A)(1)(a).
OAC rule 3745-17-07(A)(1)(a)	Visible particulate emissions from shall not exceed twenty percent opacity, as a six minute average.
OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a The emission unit's 0.65 lb PE/hr and 2.85 ton PE/yr emission limitations are based on the emission unit's potential to emit vented through the dust collection system (baghouse). Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with these emission limitations.

B. Operational Restrictions

1. The permittee shall operate the dust collection system (baghouse) at all times this emission unit is in operation.

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2. The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.

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C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation, and when weather conditions allow, for any visible particulate emissions (excluding uncombined water vapor) from the fabric filter 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the fabric filter serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission limitation:
Particulate emissions (PE) shall not exceed 0.65 lb/hr and 2.85 ton/yr from the

Emissions Unit ID: P009

NDC-3 baghouse.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collector (0.02 gr/dscf) by the air flow capacity of the dust collection system (3800 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound. The annual emission limitation shall be determined by multiplying the hourly emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

Emissions:

$$0.02 \text{ gr/dscf} * 3800 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.65 \text{ lb PE/hr}$$
$$0.65 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 2.85 \text{ ton PE/yr}$$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted to demonstrate compliance with the 0.02 gr/dscf.
 - ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- b. Emission limitation:
Visible particulate emissions shall not exceed 20 % opacity, as a six-minute average.

Applicable compliance method:

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

F. Miscellaneous Requirements

Issued: 9/12/2006

1. The terms and conditions contained within this PTI shall supersede the terms and conditions previously contained in PTI 01-08591 issued on May 28, 2002.

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment - (P010) - 30-HP Mill (70-3 ACM 30)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-02(A)	Particulate emissions (PE) from the PDC-7 baghouse and the NDC-6 baghouse (combined) shall not exceed 10.0 tons per year (See A.2.a.i. and A.2.a.ii. below).
OAC rule 3745-17-11(B)	PE emissions from the PDC-7 baghouse and NDC-6 baghouse shall not exceed 2.57 pounds per hour based on Table I.
OAC rule 3745-17-07(A)(1)	Visible particulate emissions from shall not exceed twenty percent opacity, as a six minute average from the PDC-7 baghouse (stack S010a).
	Visible particulate emissions from shall not exceed twenty percent opacity, as a six minute average from the NDC-6 baghouse (stack S010b).

2. Additional Terms and Conditions

- 2.a Permit to Install 01-12065 for this air contaminant source takes into account the use of a baghouse system, whenever this air contaminant source is in operation, with a minimum control efficiency of 99%, by weight for PE, as a voluntary restriction as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):
 - i. Install and operate the PDC-7 baghouse to control particulate emissions from the process.
 - ii. Install and operate the NDC-6 baghouse to control particulate emissions from the process

B. Operational Restrictions

1. The permittee shall operate the PDC-7 dust collection system (baghouse) at all times this emission unit is in operation.
2. The pressure drop across the PDC-7 baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.
3. The permittee shall operate the NDC-6 dust collection system (baghouse) at all times this emission unit is in operation.
4. The pressure drop across the NDC-6 baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation, and when weather conditions allow, for any visible particulate emissions (excluding uncombined water vapor) from the fabric filters 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the PDC-7 baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.
3. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the NDC-6 baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a

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daily basis while the emissions unit is in operation.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the fabric filters serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the PDC-7 baghouse did not comply with the allowable range specified above.
3. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the NDC-6 baghouse did not comply with the allowable range specified above.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission limitation:
PE emissions from the PDC-7 baghouse and NDC-6 baghouse shall 2.57 pounds per hour based on Table I.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collectors (0.02 gr/dscf) by the air flow capacity of the dust collection system (2800 acfm for PDC-7 and 3600 acfm for NDC-6) by 60 minutes per hour and dividing by 7,000 grains per pound.

Emissions for PDC-7:

$$0.02 \text{ gr/dscf} * 2800 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.48 \text{ lb PE/hr}$$

Emissions for NDC-6:

$$0.02 \text{ gr/dscf} * 3600 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.62 \text{ lb PE/hr}$$

Emissions Unit ID: **P010**

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted to demonstrate compliance with the 0.02 gr/dscf.
 - ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- b. Emission limitation:
Visible particulate emissions from shall not exceed twenty percent opacity, as a six minute average from the PDC-7 baghouse (stack S010a).
- Applicable compliance method:
If required, compliance shall be demonstrated through visible emissions observation performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03 (B)(1).
- c. Emission limitation:
Visible particulate emissions from shall not exceed twenty percent opacity, as a six minute average from the NDC-6 baghouse (stack S010b).
- Applicable compliance method:
If required, compliance shall be demonstrated through visible emissions observation performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03 (B)(1).

F. Miscellaneous Requirements

None

Issued: 9/12/2006

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment - (P011) - Mini-Mix Process and Mini-Mix Vacuum System

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-02(A)	Particulate emissions (PE) shall not exceed 10.0 tons per year (See A.2.a. below)
OAC rule 3745-17-11(B)	PE from the NDC-7 baghouse shall not exceed 0.876 pounds per hour based on Table I.
OAC rule 3745-17-07(A)(1)(a)	Visible particulate emissions from shall not exceed twenty percent opacity, as a six minute average from the NDC-7 baghouse (stack S011a)

2. Additional Terms and Conditions

- 2.a Permit to Install 01-12065 for this air contaminant source takes into account the use of a baghouse, whenever this air contaminant source is in operation, with a minimum control efficiency of 99%, by weight for PE, as a voluntary restriction as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):
 - i. Install and operate the NDC-7 baghouse to control particulate emissions from the process.

B. Operational Restrictions

1. The pressure drop across the NDC-7 baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.
2. The permittee shall operate the NDC-7 dust collection system (baghouse) at all times

DuPont Powder Coatings USA Inc
DTI Application: 01 12065

Facility ID: 0125122188

Emissions Unit ID: P011

this emission unit is in operation.

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C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation, and when weather conditions allow, for any visible particulate emissions (excluding uncombined water vapor) from the fabric filters 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the NDC-7 baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis while the emissions unit is in operation.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the fabric filters serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the NDC-7 baghouse did not comply with the allowable range specified above.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission limitation:
PE from the NDC-7 baghouse shall not exceed 0.876 pounds per hour based on

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Table I.

Applicable compliance method:

Compliance with the short term emission limitation shall be determined by multiplying the maximum outlet emission rate of the dust collectors (0.02 gr/dscf) by the air flow capacity of the dust collection systems (3775 acfm) by 60 minutes per hour and dividing by 7,000 grains per pound.

Emissions:

$0.02 \text{ gr/dscf} * 3775 \text{ cf/min} * 60 \text{ min/hr} / 7,000 \text{ grains/lb} = 0.65 \text{ lb PE/hr}$

If required by the Ohio EPA, the permittee shall conduct particulate emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted to demonstrate compliance with the 0.02 gr/dscf.
 - ii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iii. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- b. Emission limitation:
Visible particulate emissions from shall not exceed twenty percent opacity, as a six minute average from the NDC-7 baghouse (stack S011a)

Applicable compliance method:

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

F. Miscellaneous Requirements

None