



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

10/06/03

CERTIFIED MAIL

**RE: Preliminary Proposed Title V
Chapter 3745-77 permit**

13-18-00-0101
PPG Industries, Inc. - Cleveland
David W Arend Mr.
3800 West 143 Street
Cleveland, OH 44111

Dear David W Arend:

Enclosed is the Ohio EPA Preliminary Proposed Title V permit that was issued in draft form on 06/13/03. The comment period for the Draft permit has ended. We are now ready to submit this permit to USEPA for approval.

We are submitting this for your review and comment. If you do not agree with the Preliminary Proposed Title V permit as written, you now have the opportunity to raise your concerns. **In order to facilitate our review of all the comments or concerns you may have with the enclosed preliminary proposed permit, please provide a hand marked-up copy of the permit showing the changes you think are necessary, along with any additional summary comments, within fourteen (14) days from your receipt of this letter to:**

**Ohio EPA, Division of Air Pollution Control
Jim Orlemann, Manager, Engineering Section
Preliminary Proposed Title V Permit Correspondence
122 South Front Street
Columbus, Ohio 43215**

and

Cleveland Division of Air Pollution Control
1925 St. Clair
Cleveland, OH 44114
(216) 664-2324

Also, if you believe that it is necessary to have an informal conference with us, then, as part of your written comments, you should request a conference concerning the written comments.

If comments are not submitted within fourteen (14) days of your receipt of this letter, we will forward the proposed permit to USEPA for approval. All comments received will be carefully considered before proceeding to the proposed permit.

Sincerely,


Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: Cleveland Division of Air Pollution Control
File, DAPC PMU



State of Ohio Environmental Protection Agency

PRELIMINARY PROPOSED TITLE V PERMIT

Issue Date: 10/06/03	Effective Date: To be entered upon final issuance	Expiration Date: To be entered upon final issuance
----------------------	---	--

This document constitutes issuance of a Title V permit for Facility ID: 13-18-00-0101 to:
 PPG Industries, Inc. - Cleveland
 3800 West 143rd Street
 Cleveland, OH 44111

Emissions Unit ID (Company ID)/Emissions Unit Activity Description

B007 (B007) 28.1 MMBTU/hr Boiler	P201 (P201) Reeco One Controlled Production Sources	P202 (P202) Waterbase Control Exempt Sources
K201 (K201) Reeco Two Controlled Laboratory Sources		

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Cleveland Division of Air Pollution Control
 1925 St. Clair
 Cleveland, OH 44114
 (216) 664-2324

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
 Director

PART I - GENERAL TERMS AND CONDITIONS

A. *State and Federally Enforceable Section*

1. **Monitoring and Related Record Keeping and Reporting Requirements**

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.III of Part III of this Title V permit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

- i. The date, place (as defined in the permit), and time of sampling or measurements.
- ii. The date(s) analyses were performed.
- iii. The company or entity that performed the analyses.
- iv. The analytical techniques or methods used.
- v. The results of such analyses.
- vi. The operating conditions existing at the time of sampling or measurement.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include 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.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))

c. The permittee shall submit required reports in the following manner:

- i. **All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:**

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted by January 31, April 30, July 31, and October 31 of each year in accordance with General Term and Condition A.1.c.ii below; and each report shall cover the previous calendar quarter.

In accordance with OAC rule 3745-15-06, a malfunction constitutes a violation of an emission limitation (or control requirement) and, therefore, is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- ii. **Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.IV of Part III of this Title V permit or, in some cases, in Part II of this Title V permit, all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written reports shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. OAC rule 3745-77-07(A)(3)(c) is not fully satisfied until the permittee addresses all other deviations of the federally enforceable requirements specified in the permit.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement overrides the reporting requirements specified in this General Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this General Term and Condition.

See B.6 below if no deviations occurred during the quarter.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- iii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with General Term and Condition A.1.c.ii above shall be submitted in the following manner:**

Written reports that identify all other deviations of the federally enforceable requirements contained in this permit, including the monitoring, record keeping, and reporting requirements, which are not reported in accordance with General Term and Condition A.1.c.ii above shall be submitted to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with General Term and Condition A.1.c.ii above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii))

- iv. Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."

(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

- v. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

2. **Scheduled Maintenance**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance 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). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in General Term and Condition A.1.c.i above.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. **Risk Management Plans**

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. ("Act"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

- a. a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or
- b. as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

(Authority for term: OAC rule 3745-77-07(A)(4))

4. **Title IV Provisions**

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

(Authority for term: OAC rule 3745-77-07(A)(5))

5. **Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

(Authority for term: OAC rule 3745-77-07(A)(6))

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.10 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

(Authority for term: OAC rule 3745-77-07(A)(7))

7. 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.

(Authority for term: OAC rule 3745-77-07(A)(8))

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

(Authority for term: OAC rule 3745-77-07(A)(9))

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

(Authority for term: OAC rule 3745-77-07(A)(10))

10. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.
(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

11. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

(Authority for term: OAC rule 3745-77-07(B))

12. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

- i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:
- i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
 - ii. Compliance certifications shall include the following:
 - (a) An identification of each term or condition of this permit that is the basis of the certification.
 - (b) The permittee's current compliance status.
 - (c) Whether compliance was continuous or intermittent.
 - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
 - iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))

13. Permit Shield

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

(Authority for term: OAC rule 3745-77-07(F))

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

15. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.
(Authority for term: OAC rule 3745-77-07(G))

16. Off-Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.
- b. The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA. Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.
- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(Authority for term: OAC rule 3745-77-07(I))

17. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

(This term is provided for informational purposes only.)

18. Insignificant Activities

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.

(Authority for term: OAC rule 3745-77-07(A)(1))

19. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-07(A)(1))

20. 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.

(Authority for term: OAC rule 3745-77-07(A)(1))

21. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification by the responsible official of the date on which the emissions unit was permanently shut down. Authorization to operate the affected part or activity of the stationary source shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

If an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent “modification” or “installation” as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an “emissions unit” as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any monitoring, record keeping, reporting, or testing requirements, applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

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

B. State Only Enforceable Section

1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping 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 (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) 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. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. 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.)

2. 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.

3. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

4. 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).

5. 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.

6. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation 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 by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

- a. where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in General Term and Condition A.1.c.ii;
- b. where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; and
- c. where the company's responsible official has certified that an emissions unit has been permanently shut down.

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Terms and Conditions

I. Applicable Emissions Limitations and/or Control Requirements

1. Emissions from this facility shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table:

<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
OAC rule 3745-31-02(A)(2) (PTI 13-03881)	Facility-wide volatile organic compounds (VOC) emissions shall not exceed 163.4 tons per year as a rolling, twelve-month summation. Facility-wide particulate emissions (PE) shall not exceed 14.4 tons per year as a rolling, twelve-month summation. Facility-wide sulfur dioxide (SO ₂) emissions shall not exceed 35.8 tons per year as a rolling, twelve-month summation. Facility-wide nitrogen oxides (NO _x) emissions shall not exceed 64.0 tons per year as a rolling, twelve-month summation. Facility-wide carbon monoxide (CO) emissions shall not exceed 47.8 tons per year as a rolling, twelve-month summation. Facility-wide natural gas usage shall not exceed 1,079,230,000 cubic feet per year as a rolling, twelve-month summation. Facility-wide distillate oil (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding number 4 fuel oil) usage shall not exceed 1,000,000 gallons per year as a rolling, twelve-month summation. See Section A.I.2.a.

2. Additional Terms and Conditions

- 2.a The facility-wide rolling, twelve-month emission limitations for VOC, PE, SO₂, NO_x and CO, and the facility-wide natural gas and distillate oil usage limitations established

pursuant to OAC rule 3745-31-02(A)(2) are synthetic minor limitations that restricted the emission increases under Permit to Install 13-03881 to less than the "significant" emission levels specified in OAC rule 3745-31-01(SSS) (i.e., less than 15 TPY for PE, less than 40 TPY for SO₂, less than 40 TPY for NO_x, less than 40 TPY for VOC, and less than 100 TPY for CO).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the rolling, twelve-month summations of the facility-wide VOC, PE, SO₂, NO_x and CO emission rates, in tons.
2. The permittee shall maintain monthly records of the rolling, twelve-month summations of the facility-wide, monthly natural gas usages, in cubic feet (ft³).
3. The permittee shall maintain monthly records of the rolling, twelve-month summations of the facility-wide, monthly distillate oil usages, in gallons.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each month during which the facility-wide VOC, PE, SO₂, NO_x and CO emissions exceeded the limitations in Part II, Section A.I.1.
2. The permittee shall submit quarterly deviation (excursion) reports that identify each month during which the facility-wide natural gas usage exceeded the limitation in Part II, Section A.I.1.
3. The permittee shall submit quarterly deviation (excursion) reports that identify each month during which the facility-wide distillate oil usage exceeded the limitation in Part II, Section A.I.1.
4. The quarterly deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Part II, Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
2. Emission Limitation:
Facility-wide VOC emissions shall not exceed 163.4 tons per year as a rolling, twelve-month summation.

Applicable Compliance Method:

The permittee shall calculate the facility-wide VOC emissions, on a monthly basis, as the summation of items a. through d. below:

- a. multiply the facility-wide natural gas usage and the facility-wide distillate oil usage by the appropriate emission factors for VOC from USEPA's Compilation of Air Pollution Emission Factors, AP-42, Fifth Edition or the most recent edition of AP-42 and convert the emission rates to tons;
- b. for emissions units K201, P201, and P202, monthly VOC emissions shall be calculated as specified in Part III, Section A.V of the terms and conditions for K201, P201, and P202;
- c. for the insignificant emissions units (see reference Table 5), the VOC emissions shall be calculated as follows:
 - i. for the fuel burning units such as the REECO burners, small boilers, heaters, hot water tanks, fire water pumps and backup generators, the VOC emissions are included in 2.a. above;
 - ii. for the solvent sinks, lab fume hoods, lab ovens, lab benches and draw scales, the VOC emissions are included in K201;
 - iii. for the drum agitation stations, centrifuges, dispense machines, overflow tanks, tank wagon rinsing and pigment pre-assembly, the VOC emissions are included in P201;
 - iv. for the storage tanks, the most recent version of USEPA's TANKS program shall be used to calculate the VOC emissions;
 - v. for the Building 41 trash compactor, an emission rate of 0.18 pound of VOC per month shall be assumed based on engineering calculations supplied by the permittee;
 - vi. for the uncontrolled paint spray booths, VOC emissions shall equal the entire organic content of the material sprayed; and
 - vii. for the light liquid service pump seals and flanges (connectors) and external flanges, VOC emissions shall be determined using an emission factor of 0.000858 pound VOC per gallon of paint produced (this emission factor was developed by the permittee from 1996 calculated potential fugitive emissions of 8800 pounds VOC/10,254,474 gallons of paint produced; and
- d. the VOC emissions from any new emissions unit(s) may be determined using one or more of the following with Agency approval:
 - i. USEPA's Compilation of Air Pollution Emission Factors, AP-42, Fifth Edition or the most recent edition of AP-42, Section 5.2 Transportation and Marketing of Petroleum Liquids, (1/95);
 - ii. USEPA's Compilation of Air Pollution Emission Factors, AP-42, Fifth Edition or the most recent edition of AP-42, Section 6.4 Paint and Varnish, (5/83);

- iii. USEPA's Compilation of Air Pollution Emission Factors, AP-42, Fifth Edition or the most recent edition of AP-42, Section 7.1 Organic Liquid Storage Tanks, (9/97);
- iv. USEPA emission estimation software programs such as TANKS program, SPECIATE version 3.1, Factor Information Retrieval (FIRE) version 6.22 or the most recent version of these software programs;
- v. USEPA's Control of Volatile Organic Compounds Emissions from Ink and Paint Manufacturing Processes, EPA-450/3-92-013, April 1992;
- vi. USEPA's 1995 Protocol for Equipment Leak Emission Estimates, EPA-453/R-95-017, November 1995;
- vii. stack test emission data;
- viii. material balance calculations; or
- ix. other Agency-approved emission factors.

The permittee shall calculate the rolling, twelve-month VOC emissions as the sum of the VOC emissions from the current calendar month and the previous 11 calendar months.

3. Emission Limitation:

Facility-wide PE shall not exceed 14.4 tons per year as a rolling, twelve-month summation.

Applicable Compliance Method:

The permittee shall calculate the facility-wide PE, on a monthly basis, as the summation of items a. through d. below:

- a. multiply the facility-wide natural gas usage and the facility-wide distillate oil usage by the appropriate emission factors for PE from USEPA's Compilation of Air Pollution Emission Factors, AP-42, Fifth Edition or the most recent edition of AP-42 and convert the emission rates to tons;
- b. for emissions units K201 and P201, the PE rate shall be the annual PE rate, in tons per year, calculated in Part III, Section A.V of the terms and conditions for K201 and P201 divided by 12 months per year;
- c. for the insignificant emissions units (see reference Table 5), PE shall be calculated as follows:
 - i. for the fuel burning units such as the REECO burners, small boilers, heaters, hot water tanks, fire water pumps and backup generators, the PE are included in 3.a. above; and
 - ii. for the uncontrolled paint spray booths, PE shall equal the entire solids content of the material sprayed.

- d. the PE from any new emissions unit(s) may be determined using one of the following with Agency approval:
- i. USEPA's Compilation of Air Pollution Emission Factors, AP-42, Fifth Edition or the most recent edition of AP-42, Section 6.4 Paint and Varnish, (5/83);
 - ii. USEPA's Control of Volatile Organic Compounds Emissions from Ink and Paint Manufacturing Processes EPA-450/3-92-013 April 1992;
 - iii. stack test emission data;
 - iv. material balance calculations; or
 - v. other Agency-approved emission factors.

The permittee shall calculate the rolling, twelve-month PE as the sum of the PE from the current calendar month and the previous 11 calendar months.

4. Emission Limitation:
Facility-wide SO₂ emissions shall not exceed 35.8 tons per year as a rolling, twelve-month summation.

Applicable Compliance Method:

The permittee shall calculate the facility-wide SO₂ emissions, on a monthly basis, as the summation of items a. through c. below:

- a. multiply the facility-wide natural gas usage and the facility-wide distillate oil usage by the appropriate emission factors for SO₂ from USEPA's Compilation of Air Pollution Emission Factors, AP-42, Fifth Edition or the most recent edition of AP-42 and convert the emission rates to tons;
- b. for the fuel burning units such as the REECO burners, small boilers, heaters, hot water tanks, fire water pumps and backup generators, the SO₂ emissions are included in 4.a. above; and
- c. SO₂ emissions from any new emissions unit(s) may be determined using one of the following with Agency approval:
 - i. stack test emission data;
 - ii. material balance calculations; or
 - iii. other Agency-approved emission factors.

The permittee shall calculate the rolling, twelve-month SO₂ emissions as the sum of the SO₂ emissions from the current calendar month and the previous 11 calendar months.

5. Emission Limitation:
Facility-wide NO_x emissions shall not exceed 64.0 tons per year as a rolling, twelve-month summation.

Applicable Compliance Method:

The permittee shall calculate the facility-wide NO_x emissions, on a monthly basis, as the summation of items a. through c. below:

- a. multiply the facility-wide natural gas usage and the facility-wide distillate oil usage by the appropriate emission factors for NO_x from USEPA's Compilation of Air Pollution Emission Factors, AP-42, Fifth Edition or the most recent edition of AP-42 and convert the emission rates to tons;
- b. for the fuel burning units such as the REECO burners, small boilers, heaters, hot water tanks, fire water pumps and backup generators, the NO_x emissions are included in 5.a. above; and
- c. NO_x emissions from any new emissions unit(s) may be determined using one of the following with Agency approval:
 - i. stack test emission data;
 - ii. material balance calculations; or
 - iii. other Agency-approved emission factors.

The permittee shall calculate the rolling, twelve-month NO_x emissions as the sum of the NO_x emissions from the current calendar month and the previous 11 calendar months.

6. Emission Limitation:

Facility-wide CO emissions shall not exceed 47.8 tons per year as a rolling, twelve-month summation.

Applicable Compliance Method:

The permittee shall calculate the facility-wide CO emissions, on a monthly basis, as the summation of items a. through c. below:

- a. multiply the facility-wide natural gas usage and the facility-wide distillate oil usage by the appropriate emission factors for CO from USEPA's Compilation of Air Pollution Emission Factors, AP-42, Fifth Edition or the most recent edition of AP-42 and convert the emission rates to tons;
- b. for the fuel burning units such as the REECO burners, small boilers, heaters, hot water tanks, fire water pumps and backup generators, the CO emissions are included in 6.a. above; and
- c. CO emissions from any new emissions unit(s) may be determined using one of the following with Agency approval:
 - i. stack test emission data;
 - ii. material balance calculations; or
 - iii. other Agency-approved emission factors.

The permittee shall calculate the rolling, twelve-month CO emissions as the sum of the CO emissions from the current calendar month and the previous 11 calendar months.

VI. Miscellaneous Requirements

1. This Title V permit includes the following tables:

Table A	List of Permits to Install (PTI's) issued to PPG Industries Ohio, Inc., Cleveland, Ohio
Table 1	Non-Insignificant Emissions Units
Table 2	K201 - Paint Laboratory Operations Emissions Units [emissions units grouped pursuant to OAC rule 3745-21-09(MM)(3)]
Table 3	P201 - Paint Manufacturing Operations Emissions Units [emissions units grouped pursuant to OAC rule 3745-21-09(MM)(2)]
Table 4	P202 - Dedicated Waterbased Paint Production Equipment [emissions units grouped pursuant to OAC rule 3745-21-09(MM)(4)]
Table 5	Insignificant Emissions Units* [does not include any emissions units covered under B007, K201, P201, or P202] *Pursuant to OAC rule 3745-77-01(U)(1), insignificant emissions units include "All source categories excluded from the requirements to obtain installation permits...". Therefore, all "PTI exempt" emissions units are by definition "Insignificant Emissions Units" for Title V purposes.

2. PPG Industries Permit to Install 13-03881 is designed to contain all emissions units that are required to obtain a permit to install and a list of all insignificant emissions units at this facility. PTI 13-03881 will typically be modified whenever PPG Industries applies for a permit to either modify existing emissions units or to install new emissions units at this facility. This Title V permit will be modified accordingly to reflect changes made to PTI 13-03881.

3. As per OAC rule 3745-31-02, PPG Industries shall apply for and obtain an air pollution permit to install prior to beginning construction of any non-exempt new or modified air contaminant source (emissions unit). Once PPG Industries has submitted a permit application for any such new or modified source, Ohio EPA will determine if either: (a) a separate permit to install will be issued, or (b) PTI 13-03881 will be revised. This Title V permit will be modified accordingly to reflect such changes.

4. The permittee shall submit updated Emissions Unit Tables 2, 3, and 4 to the Cleveland Division of Air Quality on an annual basis. The updated tables shall include a complete list of emissions units for each table (including an identification of each emissions unit that is permanently shut down and dismantled) as of the end of the calendar year. This report shall be submitted to the Cleveland Division of Air Quality by February 28 of each year.

The updated Emissions Unit Tables 2, 3, and 4 will be included in the next modification to PTI 13-03881. If none of the Emissions Unit Tables 2, 3, or 4 requires an update, the permittee shall submit a report by February 28 of each year that states no revisions are required. This Title V permit will be modified accordingly to reflect changes made to PTI 13-03881.

5. The permittee shall submit an updated Emissions Unit Table 5 (Insignificant Emissions Units) to the Cleveland Division of Air Quality on an annual basis. The updated table shall include the complete list of emissions units including any PTI exempt emissions unit(s) installed during the last calendar year and an identification of each emissions unit that is permanently shut down and

dismantled. This report shall be submitted to the Cleveland Division of Air Quality by February 28 of each year.

The updated Emissions Unit Table 5 will be included in the next modification to PTI 13-03881. If Emissions Unit Table 5 does not require an update, the permittee shall submit a report by February 28 of each year that states no revision is required. This Title V permit will be modified accordingly to reflect changes made to PTI 13-03881.

II. Terms and Conditions for MACT Standards that are not yet promulgated

1. The permittee may be subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD. U.S. EPA failed to promulgate this standard by May 15, 2002, the Maximum Achievable Control Technology (MACT) hammer date. In accordance with 40 CFR Part 63, Subpart B (40 CFR Parts 63.50 through 63.56), the permittee shall submit an application to revise the permit to include equivalent emission limitations as a result of a case-by-case MACT determination. The application shall be submitted in two parts. The deadline to submit the Part I application, as specified in 40 CFR Part 63.53, was May 15, 2002.
2. If the final NESHAP standard is not promulgated by the deadline specified by U.S. EPA, the permittee shall submit the Part II application as specified in 40 CFR Part 63.53. The Part II application shall be submitted within 60 days after the deadline to promulgate the respective standard or by May 15, 2003, whichever is later. It must contain the following information, unless otherwise specified by future U.S. EPA regulations:
 - a. for a new affected source, the anticipated date of startup of operation;
 - b. the hazardous air pollutants (HAPs) emitted by each affected source in the relevant source category and an estimated total uncontrolled and controlled emission rate for HAPs from the affected source;
 - c. any existing federal, State, or local limitations or requirements applicable to the affected source;
 - d. for each affected emission point or group of affected emission points, an identification of control technology in place;
 - e. information relevant to establishing the MACT floor (or MACT emission limitation), and, at the option of the permittee, a recommended MACT floor; and
 - f. any other information reasonably needed by the permitting authority including, at the discretion of the permitting authority, information required pursuant to Subpart A of 40 CFR Part 63.
3. The Part II application for a MACT determination may, but is not required to, contain the following information:
 - a. recommended emission limitations for the affected source and support information (the permittee may recommend a specific design, equipment, work practice, or operational standard, or combination thereof, as an emission limitation);
 - b. a description of the control technologies that would be applied to meet the emission limitation, including technical information on the design, operation, size, estimated control efficiency and any other information deemed appropriate by the permitting authority, and identification of the affected sources to which the control technologies must be applied; and

- c. relevant parameters to be monitored and frequency of monitoring to demonstrate continuous compliance with the MACT emission limitation over the applicable reporting period.
4. If the NESHAP is promulgated before the Part II application is due for the relevant source category, the permittee may be subject to the rule as an existing major source with a compliance date as specified in the NESHAP. If subject, the permittee shall submit the following notifications:
 - a. Unless otherwise specified in the relevant Subpart, within 120 days after promulgation of a 40 CFR Part 63 Subpart to which the source is subject, the permittee shall submit an Initial Notification Report that contains the following information, in accordance with 40 CFR Part 63.9(b)(2):
 - i. the name and mailing address of the permittee;
 - ii. the physical location of the source if it is different from the mailing address;
 - iii. identification of the relevant MACT standard and the source's compliance date;
 - iv. a brief description of the nature, design, size, and method of operation of the source, and an identification of the types of emission points within the affected source subject to the relevant standard and the types of HAPs emitted; and
 - v. a statement confirming the facility is a major source for HAPs.
 - b. Unless otherwise specified in the relevant Subpart, within 60 days following completion of any required compliance demonstration activity specified in the relevant Subpart, the permittee shall submit a notification of compliance status that contains the following information:
 - i. the methods used to determine compliance;
 - ii. the results of any performance tests, visible emission observations, continuous monitoring systems performance evaluations, and/or other monitoring procedures or methods that were conducted;
 - iii. the methods that will be used for determining continuous compliance, including a description of monitoring and reporting requirements and test methods;
 - iv. the type and quantity of HAPs emitted by the source, reported in units and averaging times in accordance with the test methods specified in the relevant Subpart;
 - v. an analysis demonstrating whether the affected source is a major source or an area source;
 - vi. a description of the air pollution control equipment or method for each emission point, including each control device or method for each HAP and the control efficiency (percent) for each control device or method; and

vii. a statement of whether or not the permittee has complied with the requirements of the relevant Subpart.

III. Terms and Conditions for Subpart HHHHH-- National Emission Standards for Hazardous Air Pollutants: Miscellaneous Coating Manufacturing

Sec.

What this Subpart Covers

- 63.7980 What is the purpose of this subpart?
- 63.7985 Am I subject to the requirements in this subpart?
- 63.7990 What parts of my plant does this subpart cover?

Compliance Dates

- 63.7995 When do I have to comply with this subpart?

Emission Limits, Work Practice Standards, and Compliance Requirements

- 63.8000 What are my general requirements for complying with this subpart?
- 63.8005 What requirements apply to my process vessels?
- 63.8010 What requirements apply to my storage tanks?
- 63.8015 What requirements apply to my equipment leaks?
- 63.8020 What requirements apply to my wastewater streams?
- 63.8025 What requirements apply to my transfer operations?
- 63.8030 What requirements apply to my heat exchange systems?

Alternative Means of Compliance

- 63.8050 How do I comply with emissions averaging for stationary process vessels at existing sources?
- 63.8055 How do I comply with a weight percent HAP limit in coating products?

Notifications, Reports, and Records

- 63.8070 What notifications must I submit and when?
- 63.8075 What reports must I submit and when?
- 63.8080 What records must I keep?

Other Requirements and Information

- 63.8090 What compliance options do I have if part of my plant is subject to both this subpart and another subpart?
- 63.8095 What parts of the General Provisions apply to me?
- 63.8100 Who implements and enforces this subpart?
- 63.8105 What definitions apply to this subpart?

Tables to Subpart HHHHH of Part 63

- Table 1 to Subpart HHHHH of Part 63 - Emission Limits and Work Practice Standards for Process Vessels
- Table 2 to Subpart HHHHH of Part 63 - Emission Limits and Work Practice Standards for Storage Tanks
- Table 3 to Subpart HHHHH of Part 63 - Requirements for Equipment Leaks
- Table 4 to Subpart HHHHH of Part 63 - Emission Limits and Work Practice Standards for Wastewater Streams
- Table 5 to Subpart HHHHH of Part 63 - Emission Limits and Work Practice Standards for Transfer Operations
- Table 6 to Subpart HHHHH of Part 63 - Requirements for Heat Exchange Systems
- Table 7 to Subpart HHHHH of Part 63 - Partially Soluble Hazardous Air Pollutants
- Table 8 to Subpart HHHHH of Part 63 - Soluble Hazardous Air Pollutants

Table 9 to Subpart HHHHH of Part 63 - Requirements for Reports

Table 10 to Subpart HHHHH of Part 63 - Applicability of General Provisions to Subpart HHHHH

What this Subpart Covers

§63.7980 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for miscellaneous coating manufacturing. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limits, operating limits, and work practice standards.

§63.7985 Am I subject to the requirements in this subpart?

(a) You are subject to the requirements in this subpart if you own or operate miscellaneous coating manufacturing operations, as defined in paragraph (b) of this section, that meet the conditions specified in paragraphs (a)(1) through (4) of this section.

(1) Are located at or are part of a major source of hazardous air pollutants (HAP) emissions, as defined in section 112(a) of the Clean Air Act (CAA).

(2) Manufacture coatings as defined in §63.8105.

(3) Process, use, or produce HAP.

(4) Are not part of an affected source under another subpart of this part 63.

(b) Miscellaneous coating manufacturing operations include the facilitywide collection of equipment described in paragraphs (b)(1) through (4) of this section that is used to manufacture coatings as defined in §63.8105. Miscellaneous coating manufacturing operations also include cleaning operations.

(1) Process vessels.

(2) Storage tanks for feedstocks and products.

(3) Components such as pumps, compressors, agitators, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, and instrumentation systems.

(4) Wastewater tanks and transfer racks.

(c) If the predominant use of a transfer rack loading arm or storage tank (including storage tanks in series) is associated with miscellaneous coating manufacturing, and the loading arm or storage tank is not part of an affected source under a subpart of this part 63, then you must assign the loading arm or storage tank to the miscellaneous coating manufacturing operations. If the predominant use cannot be determined, and the loading arm or storage tank is not part of an affected source under a subpart of this part 63, then you must assign the loading arm or storage tank to the miscellaneous coating manufacturing operations. If the use varies from year to year, then you must base the determination on the utilization that occurred during the year preceding the date of publication of the final rule in the Federal Register or, if the loading arm or storage tank was not in operation during that year, you must base the use on the expected use for the first 5-year period after startup. You must include the determination in the notification of compliance status report specified in §63.8075(d). You must redetermine the predominant use at least once every 5 years after the compliance date.

(d) The requirements for miscellaneous coating manufacturing sources in this subpart do not apply to operations described in paragraphs (c)(1) through (4) of this section.

(1) Research and development facilities, as defined in section 112(c)(7) of the CAA.

(2) The affiliated operations located at an affected source under subparts GG (National Emission Standards for Aerospace Manufacturing and Rework Facilities), KK (National Emission Standards for the Printing and Publishing Industry), JJJJ (NESHAP: Paper and Other Web Coating), future MMMM (National Emission Standards for Miscellaneous Metal Parts and Products Surface Coating Operations) and SSSS (NESHAP: Surface Coating of Metal Coil) of 40 CFR part 63. Affiliated operations include, but are not limited to, mixing or dissolving of coating ingredients; coating mixing for viscosity adjustment, color tint or additive blending, or pH adjustment; cleaning of coating lines and coating line parts; handling and storage of coatings and solvent; and conveyance and treatment of wastewater.

(3) Ancillary equipment such as boilers and incinerators (only those not used to comply with the emission limits in Tables 1 through 5 to this subpart), chillers and refrigeration systems, and other equipment that is not directly involved in the manufacturing of a coating (i.e., it operates as a closed system, and materials are not combined with materials used to manufacture the coating).

(4) Quality assurance/quality control laboratories.

§63.7990 What parts of my plant does this subpart cover?

(a) This subpart applies to each miscellaneous coating manufacturing affected source as defined in §63.7985(a).

(b) The miscellaneous coating manufacturing affected source is the miscellaneous coating manufacturing operations as defined in §63.7985(b).

(c) An affected source is a new affected source if you commenced construction or reconstruction after April 4, 2002, and you meet the applicability criteria at the time you commenced construction or reconstruction.

Compliance Dates

§63.7995 When do I have to comply with this subpart?

(a) If you have a new affected source, you must comply with this subpart according to the requirements in paragraphs (a)(1) and (2) of this section.

(1) If you start up your new affected source before the date of publication of the final rule in the Federal Register, then you must comply with the requirements for new sources in this subpart no later than the date of publication of the final rule in the Federal Register.

(2) If you startup your new affected source after the date of publication of the final rule in the Federal Register, then you must comply with the requirements for new sources in this subpart upon startup of your affected source.

(b) If you have an existing affected source on the date of publication of the final rule in the Federal Register, then you must comply with the requirements for existing sources in this subpart no later than 3 years after the date of publication of the final rule in the Federal Register.

(c) If you add equipment to your existing affected source after the date of publication of the final rule in the Federal Register you must comply with the requirements for existing sources in this subpart upon startup of the added equipment.

(d) You must meet the notification requirements in §63.8070 according to the schedule in §63.8070 and in 40 CFR part 63, subpart A. Some of the notifications must be submitted before you are required to comply with the emission limits, operating limits, and work practice standards in this subpart.

Emission Limits, Work Practice Standards, and Compliance Requirements

§63.8000 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limits and work practice standards in Tables 1 through 5 to this subpart at all times, except during periods of startup, shutdown, and malfunction. You must meet the requirements specified in paragraphs (b) and (c) of this section. You must meet the requirements specified in §§63.8005 through 63.8025 (or the alternative means of compliance in §63.8050), except as specified in paragraph (d) of this section. You must meet the notification, reporting, and recordkeeping requirements specified in §§63.8070, 63.8075, and 63.8080.

(b) General requirements. (1) If an emission stream contains halogen atoms, you must determine whether it meets the definition of a halogenated stream by calculating the concentration of each organic compound that contains halogen atoms using the procedures specified in §63.115(d)(2)(v), multiplying each concentration by the number of halogen atoms in the organic compound, and summing the resulting halogen atom concentrations for all of the organic compounds in the emission stream. Alternatively, you may elect to designate the emission stream as halogenated.

(2) Opening of a safety device, as defined in §63.8105, is allowed at any time conditions require it to avoid unsafe conditions.

(c) Compliance requirements for closed vent systems and control devices. If you use a control device to comply with an emission limit in Table 1, 2, or 5 to this subpart, you must comply with the requirements in subpart SS of 40 CFR part 63 as specified in paragraphs (c)(1) through (3) of this section, except as specified in paragraph (d) of this section.

(1) If you reduce organic HAP emissions by venting emissions through a closed-vent system to any combination of control devices (except a flare), you must meet the requirements of §63.982(c) and the requirements referenced therein.

(2) If you reduce organic HAP emissions by venting emissions through a closed-vent system to a flare, you must meet the requirements of §63.982(b) and the requirements referenced therein. You may not use a flare to control halogenated vent streams or hydrogen halide and halogen HAP emissions.

(3) If you use a halogen reduction device to reduce hydrogen halide and halogen HAP emissions that are generated by combusting halogenated vent streams, you must meet the requirements of §63.994 and the requirements referenced therein. If you use a halogen reduction device before a combustion device, you must determine the halogen atom emission rate prior to the combustion device according to the procedures in §63.115(d)(2)(v).

(d) Exceptions to the requirements specified in other subparts of this part 63. (1) Requirements for performance tests. The requirements specified in paragraphs (d)(1)(i) through (v) of this section apply instead of or in addition to the requirements for performance testing of control devices as specified in subpart SS of 40 CFR part 63.

(i) Conduct gas molecular weight analysis using Method 3, 3A, or 3B in appendix A to 40 CFR part 60.

(ii) Measure moisture content of the stack gas using Method 4 in appendix A to 40 CFR part 60.

(iii) As an alternative to using Method 18, Method 25/25A, or Method 26/26A of 40 CFR part 60, appendix A to comply with any of the emission limits specified in Tables 1 through 7 to this subpart, you may use Method 320 of 40 CFR part 60, appendix A. When using Method 320, you must follow the analyte spiking procedures of section 13 of Method 320, unless you demonstrate that the complete spiking procedure has been conducted at a similar source.

(iv) Section 63.997(c)(1) does not apply. For the purposes of this subpart, results of all initial compliance demonstrations must be included in the notification of compliance status report, which is due 150 days after the compliance date, as specified in §63.8075(d)(1).

(v) The option in §63.997(e)(2)(iv)(C) to demonstrate compliance with a percent reduction emission limit by measuring total organic carbon (TOC) is not allowed.

(vi) If you do not have a closed-vent system as defined in §63.981, you must determine capture efficiency using Method 204 of appendix M to 40 CFR part 51 for all stationary process vessels subject to requirements of Table 1 to this subpart.

(2) Design evaluation. To determine the percent reduction of a small control device, you may elect to conduct a design evaluation as specified in §63.1257(a)(1) instead of a performance test as specified in subpart SS of 40 CFR part 63. You must establish the value(s) and basis for the operating limits as part of the design evaluation.

(3) Periodic verification. For a control device with total inlet HAP emissions less than 1 ton per year (tpy), you must establish an operating limit(s) for a parameter(s) that you will measure and record at least once per averaging period (i.e., daily or block) to verify that the control device is operating properly. You may elect to measure the same parameter(s) that is required for control devices that control inlet HAP emissions equal to or greater than 1 tpy. If the parameter will not be measured continuously, you must request approval of your proposed procedure in the precompliance report. You must identify the operating limit(s) and the measurement frequency, and you must provide rationale to support how these measurements demonstrate the control device is operating properly.

(4) Continuous emissions monitoring systems. Each continuous emissions monitoring system (CEMS) must be installed, operated, and maintained according to the requirements in §63.8 and paragraphs (d)(4)(i) through (iv) of this section.

(i) Each CEMS must be installed, operated, and maintained according to the applicable Performance Specification of 40 CFR part 60, appendix B, and according to paragraph (d)(4)(ii) of this section, except as specified in paragraph (d)(4)(i)(A) of this section. For any CEMS meeting Performance Specification 8, you must also comply with appendix F, procedure 1 of 40 CFR part 60.

(A) If you wish to use a CEMS other than a Fourier Transform Infrared Spectroscopy (FTIR) meeting the requirements of Performance Specification 15 to measure hydrogen halide and halogen HAP before we promulgate a Performance Specification for such CEMS, you must prepare a monitoring plan and submit it for approval in accordance with the procedures specified in §63.8.

(B) [Reserved]

(ii) You must determine the calibration gases and reporting units for TOC CEMS in accordance with paragraph (d)(4)(ii)(A), (B), or (C) of this section.

(A) For CEMS meeting Performance Specification 9 or 15 requirements, determine the target analyte(s) for calibration using either process knowledge of the control device inlet stream or the screening procedures of Method 18 on the control device inlet stream.

(B) For CEMS meeting Performance Specification 8 used to monitor performance of a combustion device, calibrate the instrument on the predominant organic HAP and report the results as carbon (C_1), and use Method 25A or any approved alternative as the reference method for the relative accuracy tests.

(C) For CEMS meeting Performance Specification 8 used to monitor performance of a noncombustion device, determine the predominant organic HAP using either process knowledge or the screening procedures of Method 18 on the control device inlet stream, calibrate the monitor on the predominant organic HAP, and report the results as C_1 . Use Method 18, ASTM D6420-99, or any approved alternative as the reference method for the relative accuracy tests, and report the results as C_1 .

(iii) You must conduct a performance evaluation of each CEMS according to the requirements in 40 CFR 63.8 and according to the applicable Performance Specification of 40 CFR part 60, appendix B, except that the schedule in §63.8(e)(4) does not apply, and the results of the performance evaluation must be included in the notification of compliance status report.

(iv) The CEMS data must be reduced to operating day or operating block averages computed using valid data consistent with the data availability requirements specified in §63.999(c)(6)(i)(B) through (D), except monitoring data also are sufficient to constitute a valid hour of data if measured values are available for at least two of the 15-minute periods during an hour when calibration, quality assurance, or maintenance activities are being performed. An operating block is a period of time from the beginning to end of batch operations in the manufacturing of a coating. Operating block averages may be used only for process vessel data.

(5) Continuous parameter monitoring. The provisions in paragraphs (d)(5)(i) through (iii) of this section apply in addition to the requirements for continuous parameter monitoring system (CPMS) in subpart SS of 40 CFR part 63.

(i) You must record the results of each calibration check and all maintenance performed on the CPMS as specified in §63.998(c)(1)(ii)(A).

(ii) When subpart SS of 40 CFR part 63 uses the term a range or operating range of a monitored parameter, it means an operating limit for a monitored parameter for the purposes of this subpart.

(iii) As an alternative to measuring pH as specified in §63.994(c)(1)(i), you may elect to continuously monitor the caustic strength of the scrubber effluent.

(6) Startup, shutdown, and malfunction. Sections 63.998(b)(2)(iii) and (b)(6)(i)(A), which apply to the exclusion of monitoring data collected during periods of startup, shutdown, and malfunction (SSM) from daily averages, do not apply for the purposes of this subpart.

(7) Reporting. (i) When §§63.8005 through 63.8025 reference other subparts in this part 63 that use the term periodic report, it means compliance report for the purposes of this subpart.

(ii) When there are conflicts between this subpart and referenced subparts for the due dates of reports required by this subpart, reports must be submitted according to the due dates presented in this subpart.

(iii) Excused excursions, as defined in subpart SS of 40 CFR part 63, are not allowed.

§63.8005 What requirements apply to my process vessels?

(a) You must meet each emission limit and work practice standard in Table 1 to this subpart that applies to you, except as specified in §§63.8050 and 63.8055, and you must meet each applicable requirement specified in §63.8000(b). For each control device used to comply with Table 1 to this subpart, you must comply with subpart SS of this part 63 as specified in §63.8000(c), except as specified in §63.8000(d) and paragraphs (b) through (g) of this section.

(b) When subpart SS of this part 63 refers to process vents, it means process vessel vents for the purposes of this section.

(c) Process condensers, as defined in §63.1251, are not considered to be control devices for process vessels.

(d) Initial compliance. (1) To demonstrate initial compliance with a percent reduction emission limit in Table 1 to this subpart, you must conduct the performance test or design evaluation under conditions as specified in §63.7(e)(1), except that the performance test or design evaluation must be conducted under worst-case conditions. Also, the performance test for a control device used to control emissions from process vessels must be conducted according to §63.1257(b)(8), including the submittal of a site-specific test plan for approval prior to testing. The requirements in §63.997(e)(1)(i) and (iii) also do not apply for performance tests conducted to determine compliance with the emission limits for process vessels.

(2) For the initial compliance demonstration for condensers, you must determine uncontrolled emissions using the procedures specified in §63.1257(d)(2), and you must determine controlled emissions using the procedures specified in §63.1257(d)(3)(i)(B) and (iii).

(3) You must demonstrate that each process condenser is properly operated according to the procedures specified in §63.1257(d)(2)(i)(C)(4)(ii) and (d)(3)(iii)(B). The reference in §63.1257(d)(3)(iii)(B) to the alternative standard in §63.1254(c) does not apply for the purposes of this subpart. As an alternative to measuring the exhaust gas temperature, as required by §63.1257(d)(3)(iii)(B), you may elect to measure the liquid temperature in the receiver.

(4) You must conduct a performance test or compliance demonstration equivalent to an initial compliance demonstration within 360 hours of a change in operating conditions that are not considered to be within the previously established worst-case conditions.

(e) Establishing operating limits. You must establish operating limits under the conditions required for your initial compliance demonstration, except you may elect to establish operating limit(s) for conditions other than those under which a performance test was conducted as specified in paragraph (e)(1) of this section and, if applicable, paragraph (e)(2) of this section.

(1) The operating limits may be based on the results of the performance test and supplementary information such as engineering assessments and manufacturer's recommendations. These limits may be established for conditions as unique as individual emission episodes. You must provide rationale in the precompliance report for the specific level for each operating limit, including any data and calculations used to develop the limit and a description of why the limit indicates proper operation of the control device. The procedures provided in this paragraph (e)(1) have not been approved by the Administrator and determination of the operating limit using these procedures is subject to review and approval by the Administrator.

(2) If you elect to establish separate operating limits for different emission episodes, you must maintain records as specified in §63.8085(g) of each point at which you change from one operating limit to another, even if the duration of the monitoring for an operating limit is less than 15 minutes.

(f) Averaging periods. If you elect to establish separate operating limits for different emission episodes, you may elect to determine operating block averages instead of the daily averages specified in §63.998(b)(3). An operating block is a period of time that is equal to the time from the beginning to end of an emission episode or sequence of emission episodes.

(g) Flow indicators. If flow to a control device could be intermittent, you must install, calibrate, and operate a flow indicator at the inlet or outlet of the control device to identify periods of no flow. Periods of no flow may not be used in daily or block averages, and it may not be used in fulfilling a minimum data availability requirement.

§63.8010 What requirements apply to my storage tanks?

(a) You must meet each emission limit in Table 2 to this subpart that applies to your storage tanks, and you must meet each applicable requirement specified in §63.8000(b). For each control device used to comply with Table 2 to this subpart, you must comply with subpart SS of this part 63 as specified in §63.8000(c), except as specified in §63.8000(d) and paragraphs (b) through (d) of this section.

(b) Exceptions to subparts SS and WW of this part 63. (1) If you conduct a performance test or design evaluation for a control device used to control emissions only from storage tanks, you must establish operating limits, conduct monitoring, and keep records using the same procedures as required in subpart SS of

this part 63 for control devices used to reduce emissions from process vents instead of the procedures specified in §§63.985(c), 63.998(d)(2)(i), and 63.999(b)(2).

(2) When the term storage vessel is used in subparts SS and WW of this part 63, the term storage tank, as defined in §63.8105 applies for the purposes of this subpart.

(c) Planned routine maintenance. The emission limits in Table 2 to this subpart for control devices used to control emissions from storage tanks do not apply during periods of planned routine maintenance. Periods of planned routine maintenance of each control device, during which the control device does not meet the emission limit specified in Table 2 to this subpart, must not exceed 240 hours per year (hr/yr). You may submit an application to the Administrator requesting an extension of this time limit to a total of 360 hr/yr. The application must explain why the extension is needed, it must indicate that no material will be added to the storage tank between the time the 240 hr/yr limit is exceeded and the control device is again operational, and it must be submitted at least 60 days before the 240 hr/yr limit will be exceeded.

(d) Vapor balancing alternative. As an alternative to the emission limits specified in Table 2 to this subpart, you may elect to implement vapor balancing in accordance with §63.1253(f), except as specified in paragraphs (d)(1) and (2) of this section.

(1) To comply with §63.1253(f)(6)(i), the owner or operator of an offsite cleaning and reloading facility must comply with §§63.7995 through 63.8105 instead of complying with §63.1253(f)(7)(ii).

(2) You may elect to set a pressure relief device to a value less than the 2.5 psig required in §63.1253(f)(5) if you provide rationale in your notification of compliance status report explaining why the alternative value is sufficient to prevent breathing losses at all times.

§63.8015 What requirements apply to my equipment leaks?

(a) You must meet each requirement in Table 3 to this subpart that applies to your equipment leaks, except as specified in paragraphs (b) through (d) of this section.

(b) The requirement in §63.424(a) to inspect each piece of equipment during the loading of a gasoline cargo tank means when the equipment is operating in organic HAP service for the purposes of this subpart.

(c) When §63.1036 refers to batch processes, any part of the miscellaneous coating manufacturing operations applies for the purposes of this subpart.

(d) For the purposes of this subpart, pressure testing for leaks in accordance with §63.1036(b) is not required after reconfiguration of an equipment train if flexible hose connections are the only disturbed equipment.

§63.8020 What requirements apply to my wastewater streams?

(a) You must meet each requirement in Table 4 to this subpart that applies to your wastewater streams, and you must meet each applicable requirement specified in §63.8000 and paragraphs (b) through (d) of this section.

(b) For each wastewater stream that you generate, you must either designate the wastewater stream as a Group 1 wastewater stream according to the procedures in paragraph (b)(1) of this section, or you must determine whether the wastewater stream is a Group 1 wastewater stream according to the procedures in paragraph (b)(2) of this section.

(1) You may designate any wastewater stream as a Group 1 wastewater stream. You do not have to determine the concentration for any designated Group 1 wastewater stream.

(2) For wastewater streams that you do not designate as Group 1 wastewater streams, you must use the procedures specified in §63.144(b) to establish the concentrations, except as specified in paragraphs (b)(2)(i) and (ii) of this section.

(i) References to Table 8 compounds in §63.144 do not apply for the purposes of this subpart.

(ii) Alternative test methods. (A) As an alternative to the test methods specified in §63.144(b)(5)(i), you may use Method 8260 or 8270 as specified in §63.1257(b)(10)(iii).

(B) As an alternative to using the methods specified in §63.144(b)(5)(i), you may conduct wastewater analyses using Method 1666 or 1671 of 40 CFR part 136, appendix A, and comply with the sampling protocol requirements specified in §63.144(b)(5)(ii). The validation requirements specified in §63.144(b)(5)(iii) do not apply if you use Method 1666 or 1671 of 40 CFR part 136, appendix A.

(c) For each enhanced biological treatment unit used to comply with the requirements in Table 4 to this subpart, you must monitor total suspended solids (TSS), biological oxygen demand (BOD), and the biomass concentration. In the precompliance report you must identify and provide rationale for proposed operating limits for these parameters, methods for monitoring, the frequency of monitoring, and recordkeeping and reporting procedures that will demonstrate proper operation of the enhanced biological treatment unit. Alternatively, you may use the precompliance report to request to monitor other parameters, and you must include a description of planned reporting and recordkeeping procedures and the basis for the selected monitoring frequencies and the methods that will be used.

(d) If you transfer the wastewater offsite for enhanced biological treatment, you must obtain written certification from the offsite facility stating that the offsite facility will comply with the requirements of this subpart. The certifying entity may revoke the certification by providing 90 days notice. Upon expiration of the notice period, you may not transfer wastewater to that treatment facility.

§63.8025 What requirements apply to my transfer operations?

(a) You must comply with each emission limit and work practice standard in Table 5 to this subpart that applies to your transfer operations, and you must meet all applicable requirements specified in §63.8000(b). For each control device used to comply with Table 5 to this subpart, you must comply with subpart SS of this part 63 as specified in §63.8000(c), except as specified in §63.8000(d) and paragraph (b) of this section.

(b) If you have Group 1 transfer operations, as defined in §63.8105, then all transfer racks used for bulk loading coatings must meet the requirements for high throughput transfer racks in subpart SS of this part.

§63.8030 What requirements apply to my heat exchange systems?

(a) You must comply with the requirements specified in Table 6 to this subpart that apply to your heat exchange systems, except as specified in paragraphs (b) through (e) of this section.

(b) The phrase a chemical manufacturing process unit meeting the conditions of §63.100(b)(1) through (b)(3) of this section in §63.104(a) means the miscellaneous coating manufacturing operations defined in §63.7985(b) for the purposes of this subpart.

(c) The reference to §63.100(c) in §63.104(a) does not apply for the purposes of this subpart.

(d) The reference to §63.103(c)(1) in §63.104(f)(1) does not apply. For the purposes of this subpart, records must be retained as specified in §63.10(b)(1).

(e) The reference to the periodic report required by §63.152(c) of subpart G of this part means the compliance report required by §63.8075(e) for the purposes of this subpart.

Alternative Means of Compliance

§63.8050 How do I comply with emissions averaging for stationary process vessels at existing sources?

(a) As an alternative to complying with the requirements in Table 1 to this subpart for each individual stationary process vessel, you may elect to comply with emissions averaging for stationary process vessels greater than or equal to 250 gallons (gal) at your existing affected source as specified in paragraphs (b) through (e) of this section.

(b) General requirements. (1) A State may prohibit averaging of HAP emissions and require the owner or operator of an existing affected source to comply with the emission limits and work practice standards in Table 1 to this subpart.

(2) All stationary process vessels in an emissions averaging group must be equipped with a tightly-fitting vented cover.

(c) Initial compliance. To demonstrate initial compliance with the emissions averaging alternative, you must comply with the provisions in paragraphs (c)(1) through (4) of this section.

(1) Estimate uncontrolled emissions from each affected stationary process vessel in pounds per batch using the procedures specified in §63.1257(d)(2), except as specified in paragraphs (c)(1)(i) and (ii) of this section. For the purposes of this section, uncontrolled emissions means the emissions from the vessel if it were equipped only with a tightly-fitting vented cover. You must identify the range of typical operating parameters and perform the calculation using the values that result in the highest emissions, and you must document the operating parameters and resulting emissions calculations in the precompliance report.

(i) When you are required to calculate uncontrolled emissions from heating, you may not calculate emissions using Equation 13 of subpart GGG of this part 63.

(ii) The statement in §63.1257(d)(2)(i)(B) that “the partial pressure of HAP shall be assumed to be 25 percent of the saturated value if the purge flow rate is greater than 100 scfm” does not apply. For the purposes of this subpart, multiply the HAP partial pressure in Equation 12 of 40 CFR part 63, subpart GGG by a HAP-specific saturation factor determined in accordance with Equations 1 through 3 of this section. Solve equation 1 of this section iteratively beginning with saturation factors (in the right-hand side of the equation) of 1.0 for each condensable compound. Stop iterating when the calculated saturation factors for all compounds are the same to two significant figures for subsequent iterations. Note that for multi-component emission streams, saturation factors must be calculated for all noncondensables in the emission stream.

$$S_i = \frac{K_i A}{K_i A + V + \sum_{i=1}^n S_i V_i^{sat}} \quad \text{Eq. 1}$$

$$V_i^{sat} = \frac{V P_i}{(P_T - \sum_{i=1}^n P_i)} \quad \text{Eq. 2}$$

$$K_i = K_o \left(\frac{M_o}{M_i} \right)^{1/3} \quad \text{Eq. 3}$$

Where:

- S_i = saturation factor for individual condensable compounds in the emission stream
- P_i = partial pressure of individual condensable compounds in the emission stream calculated using Raoult’s Law or other appropriate methods
- P_T = pressure of the vessel vapor space
- A = surface area of liquid
- V = purge flow rate as used in Equation 12 of 40 CFR part 63, subpart GGG
- V_i^{sat} = volumetric flowrate of condensable compounds in the emission stream
- K_i = mass transfer coefficient of individual condensable compounds in the emission stream
- K_o = mass transfer coefficient of a reference compound (e.g., 0.83 cm/s for water)
- M_o = molecular weight of reference compound (e.g., 18.02 for water)
- M_i = molecular weight of individual condensable compounds in the emission stream
- n = number of condensable compounds in the emission stream

(2) Estimate controlled emissions in pounds per batch for each vessel as specified in paragraphs (c)(2)(i) through (iii) of this section.

(i) Except as specified in paragraphs (c)(2)(ii) and (iii) of this section, estimate controlled emissions as if the vessel were controlled in compliance with entry 2.b.i. in Table 1 to this subpart.

(ii) Estimate the controlled emissions using the control level achieved on November 15, 1990 if that value is greater than the applicable control level required by entry 2.b.i in Table 1 to this subpart.

(iii) Estimate the controlled emissions using the control level required to comply with a State or Federal rule other than this subpart if that level is greater than the applicable control level required by entry 2.b.i in Table 1 to this subpart and the other rule was in effect before the date when you request approval to comply with emissions averaging.

(3) Determine actual emissions in pounds per batch for each vessel in accordance with paragraphs (c)(2)(i), (ii), or (iii), as applicable.

(i) If emissions are routed through a closed-vent system to a condenser control device, determine controlled emissions using the procedures specified in §63.1257(d)(3).

(ii) If emissions are routed through a closed-vent system to any control device other than a condenser, determine actual emissions after determining the efficiency of the control device using the procedures in subpart SS of this part 63 as specified in §63.8000(c).

(iii) If the vessel is vented to the atmosphere, then actual emissions are equal to the uncontrolled emissions estimated in accordance with paragraph (c)(1) of this section.

(4) Provide rationale in the precompliance report for why the sum of the actual emissions will be less than the sum of emissions from the vessels if they had been controlled in accordance with Table 1 to this subpart. The approved actual emissions calculated according to paragraph (c)(3) of this section are emission limits that must be incorporated into your operating permit.

(d) Continuous compliance. (1) Maintain a monthly log of the number of batches produced that can be correlated with the emissions estimates per batch developed in accordance with paragraph (c) of this section.

(2) Sum the actual emissions for all of the process vessels in the emissions averaging group every three months, with the first 3-month period beginning on the compliance date, and compare the resulting total with the total emissions for the vessels calculated in accordance with paragraph (c)(2) of this section. Compliance is demonstrated if the sum of the actual emissions is less than the emissions estimated in accordance with paragraph (c)(2) of this section.

(3) For control devices, establish operating limits and monitor as specified in §63.8000.

(e) Recordkeeping and reporting. Comply with §§63.8070, 63.8075, and 63.8080.

§63.8055 How do I comply with a weight percent HAP limit in coating products?

(a) As an alternative to complying with the requirements in Table 1 to this subpart for each individual stationary process vessel at an existing source, you may elect to comply with a 5 weight percent HAP limit for process vessels at your affected source that are used to manufacture coatings with a HAP content of less than 0.05 kg per kg product as specified in paragraph (b) of this section.

(b) You may only comply with the alternative during the production of coatings that contain less than 5 weight percent HAP, as determined using any of the procedures specified in paragraphs (b)(1) through (3) of this section.

(1) Method 311 (appendix A to 40 CFR part 63).

(2) Method 24 (appendix A to 40 CFR part 60). You may use Method 24 to determine the mass fraction of volatile matter and use that value as a substitute for the mass fraction of HAP.

(3) You may use an alternative test method for determining mass fraction of HAP if you obtain prior approval by the Administrator. You must follow the procedure in §63.7(f) to submit an alternative test method for approval.

Notification, Reports, and Records

§63.8070 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e), (f)(4) and (6), 63.9(b) through (h) that apply to you by the dates specified.

(b) Initial notification. (1) As specified in §63.9(b)(2), if you have an existing affected source on the date of publication of the final rule in the Federal Register, you must submit an initial notification not later than 120 calendar days after the date of publication of the final rule in the Federal Register.

(2) As specified in §63.9(b)(3), if you start up your new affected source on or after the date of publication of the final rule in the Federal Register, you must submit an initial notification not later than 120 calendar days after you become subject to this subpart.

(c) Notification of performance test. If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1). For any performance test required as part of the initial compliance procedures for process vessels in Table 1 to this subpart, you must also submit the test plan required by §63.7(c) and the emission profile with the notification of the performance test.

§63.8075 What reports must I submit and when?

(a) You must submit each report in Table 9 to this subpart that applies to you.

(b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report as specified in Table 9 to this subpart and paragraphs (b)(1) and (2) of this section.

(1) The compliance reports must be submitted semiannually. The first report must be submitted no later than 240 days after the applicable compliance date and shall cover the 6-month period beginning on the compliance date. Each subsequent compliance report must cover the 6-month period following the preceding period.

(2) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in Table 9.

(c) Precompliance report. You must submit a precompliance report to request approval of any of the information in paragraphs (c)(1) through (4) of this section. We will either approve or disapprove the report within 90 days after we receive it. If we disapprove the report, you must still be in compliance with the emission limitations and work practice standards in this subpart by the compliance date.

(1) Requests for approval to set operating limits for parameters other than those specified in §§63.8005 through 63.8025, including parameters for enhanced biological treatment units. Alternatively, you may make these requests according to §63.8(f).

(2) Descriptions of daily or per batch demonstrations to verify that control devices subject to §63.8000(d)(3) are operating as designed.

(3) A description of the test conditions, data, calculations, and other information used to establish operating limits according to §63.8005(e)(1).

(4) If you comply with emissions averaging in §63.8050, the data and results of emission calculations as specified in §63.8050(c)(1) through (3), and rationale for why the sum of actual emissions will be less than the sum of emissions if the process vessels were controlled in accordance with Table 1 to this subpart as specified in §63.8050(c)(4).

(d) Notification of compliance status report. You must submit a notification of compliance status report according to the schedule in paragraph (d)(1) of this section, and the notification of compliance status report must include the information specified in paragraph (d)(2) of this section.

(1) You must submit the notification of compliance status report no later than 150 days after the applicable compliance date specified in §63.7995.

(2) The notification of compliance status report must include the information in paragraphs (d)(3)(i) through (vi) of this section.

(i) The results of any applicability determinations (e.g., HAP content of coating products; halogenated vent stream determinations; group determinations for storage tanks, wastewater, and transfer operations; and equipment that is in organic HAP service).

(ii) The results of performance tests, engineering analyses, design evaluations, flare compliance assessments, inspections and repairs, and calculations used to demonstrate initial compliance according to §§63.8005 through 63.8025 and 63.8055. For performance tests, results must include descriptions of sampling and analysis procedures and quality assurance procedures.

(iii) Descriptions of monitoring devices, monitoring frequencies, and the operating limits established during the initial compliance demonstrations, including data and calculations to support the levels you establish.

(iv) Identification of parts of the affected source that are subject to overlapping requirements described in §63.8090 and the authority under which you will comply.

(v) Identify storage tanks for which you are complying with the vapor balancing alternative in §63.8010(e).

(vi) If you transfer Group 1 wastewater stream to an offsite facility for treatment, include the name and location of the transferee and a description of the Group 1 wastewater stream that is sent to the treatment

facility. If the offsite facility provides enhanced biological treatment, also include the certification required by §63.8020(d) that the offsite facility will comply with the requirements of this subpart.

(e) Compliance report. The compliance report must contain the information specified in paragraphs (e)(1) through (8) of this section.

(1) Company name and address.

(2) Statement by a responsible official with that official's name, title, and signature, certifying the accuracy of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) Applicable records and information for periodic reports as specified in referenced subparts F, SS, TT, UU, and WW of this part 63.

(5) For each SSM during which excess emissions occur, the compliance report must include the information specified in paragraphs (e)(5)(i) and (ii) of this section.

(i) Records that the procedures specified in your startup, shutdown, and malfunction plan (SSMP) were followed or documentation of actions taken that are not consistent with the SSMP.

(ii) A description of each malfunction.

(6) The compliance report must contain the information on deviations, as defined in §63.8105, according to paragraphs (e)(6)(i), (ii), and (iii) of this section.

(i) If there are no deviations from any emission limit, operating limit, or work practice standard specified in this subpart, include a statement that there were no deviations from the emission limits, operating limits, or work practice standards during the reporting period.

(ii) For each deviation from an emission limit, operating limit, and work practice standard that occurs at an affected source where you are not using a continuous monitoring system (CMS) to comply with the emission limit or work practice standards in this subpart, you must include the information in paragraphs (e)(6)(ii)(A) through (C) of this section.

(A) The total operating time of each affected source during the reporting period.

(B) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

(C) Operating logs for the day(s) during which the deviation occurred, except operating logs are not required for deviations of the work practice standards for equipment leaks.

(iii) For each deviation from an emission limit or operating limit occurring at an affected source where you are using a CMS to comply with the emission limit in this subpart, you must include the information in paragraphs (e)(6)(iii)(A) through (K) of this section. This includes periods of SSM.

(A) The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.

(B) The date, time, and duration that each CEMS was out-of-control, including the information in §63.8(c)(8).

(C) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(D) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.

(E) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(F) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total source operating time during that reporting period.

(G) An identification of each HAP that is known to be in the emission stream or wastewater stream, as applicable.

(H) A description of the product being produced.

(I) Identification of the CMS.

(J) The date of the latest CMS certification or audit.

(K) The operating day or operating block average values of monitored parameters for each day(s) during which the deviation occurred.

(7) If you use a CEMS, and there were no periods during which it was out-of-control as specified in §63.8(c)(7), include a statement that there were no periods during which the CEMS was out-of-control during the reporting period.

(8) Notification of process change. (i) Except as specified in paragraph (e)(8)(ii) of this section, whenever you change any of the information submitted in either the notification of compliance status report or any previously reported change to the notification of compliance status report, you must document the change in your compliance report. The notification must include all of the information in paragraphs (e)(8)(i)(A) and (B) of this section.

(A) Revisions to any of the information reported in the original notification of compliance status report under paragraph (d) of this section.

(B) Information required by the notification of compliance status report under paragraph (d) of this section for changes involving the addition of processes or equipment at the affected source.

(ii) You must submit a report 60 days before the scheduled implementation date of any of the changes identified in paragraphs (e)(8)(i)(A), (B), or (C) of this section.

(A) Any change to the information contained in either the precompliance report or any previously reported change to the precompliance report.

(B) A change in the status of a control device from small to large.

(C) A change in compliance status.

§63.8080 What records must I keep?

You must keep the records specified in paragraphs (a) through (f) of this section.

(a) Each applicable record required by subpart A of this part 63 and in referenced subparts SS, TT, UU, and WW of this part 63.

(b) If complying with emissions averaging, records of the monthly number of batches for each process vessel, the quarterly actual emissions for each process vessel, the quarterly estimated emissions for each process vessel if it had been controlled as specified in Table 1 to this subpart, and comparison of the sums of the quarterly actual and estimated emissions as specified in §63.8050(d).

(c) A record of each time a safety device is opened to avoid unsafe conditions in accordance with §63.8000(b)(2).

(d) Records of the results of each CPMS calibration check and the maintenance performed, as specified in §63.8000(d)(5).

(e) For each CEMS, you must keep the records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(f) In the SSMP required by §63.6(e)(3), you are not required to include Group 2 or non-affected emission points. For equipment leaks only, the SSMP requirement is limited to control devices and is optional for other equipment.

(g) If you establish separate operating limits as allowed in §63.8005(e), you must maintain a log of operation or a daily schedule indicating the time when you change from one operating limit to another.

Other Requirements and Information

§63.8090 What compliance options do I have if part of my plant is subject to both this subpart and another subpart?

(a) Compliance with 40 CFR parts 264 and 265, subparts AA, BB, and/or CC. (1) After the compliance dates specified in §63.7995, if a control device that you use to comply with this subpart is also subject to monitoring, recordkeeping, and reporting requirements in 40 CFR part 264, subpart AA, BB, or CC; or the monitoring and recordkeeping requirements in 40 CFR part 265, subpart AA, BB, or CC; and you comply with the periodic reporting requirements under 40 CFR part 264, subpart AA, BB, or CC that would apply to the device if your facility had final-permitted status, you may elect to comply either with the monitoring, recordkeeping, and reporting requirements of this subpart; or with the monitoring and recordkeeping

requirements in 40 CFR part 264 or 265 and the reporting requirements in 40 CFR part 264, as described in this paragraph, which constitute compliance with the monitoring, recordkeeping, and reporting requirements of this subpart. If you elect to comply with the monitoring, recordkeeping, and reporting requirements in 40 CFR parts 264 and/or 265, you must report the information required for the compliance report in §63.8075(e), and you must identify in the notification of compliance status report required by §63.8075(d) the monitoring, recordkeeping, and reporting authority under which you will comply.

(2) After the compliance dates specified in this section, if any equipment at an affected source that is subject to this subpart is also subject to 40 CFR part 264, subpart BB or to 40 CFR part 265, subpart BB, then compliance with the recordkeeping and reporting requirements of 40 CFR part 264 and/or 265 may be used to comply with the recordkeeping and reporting requirements of §63.1255, to the extent that the requirements of 40 CFR part 264 and/or 265 duplicate the requirements of this subpart. You must identify in the notification of compliance status report required by §63.8075(d) if you will comply with the recordkeeping and reporting authority under 40 CFR part 264 and/or 265.

(b) Compliance with 40 CFR part 60, subpart Kb. After the compliance dates specified in §63.7995, you are in compliance with this subpart for any storage tank that is assigned to miscellaneous coating manufacturing operations and that is both controlled with a floating roof and in compliance with the provisions of 40 CFR part 60, subpart Kb. You are in compliance with this subpart if you have a storage tank with a fixed roof, closed-vent system, and control device in compliance with 40 CFR part 60, subpart Kb, you must comply with the monitoring, recordkeeping, and reporting requirements in this subpart. You must also identify in your notification of compliance status report required by §63.8075(d) which storage tanks are in compliance with 40 CFR 60 part 60, subpart Kb.

§63.8095 What parts of the General Provisions apply to me?

Table 10 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§63.8100 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the U.S. Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency also has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraphs (b)(1) through (4) of this section are retained by the Administrator of U.S. EPA and are not delegated to the State, local, or tribal agency.

(1) Approval of alternatives to the non-opacity emission limits and work practice standards in §63.8000(a) under §63.6(g).

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90.

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(5) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§63.8105 What definitions apply to this subpart?

(a) For an affected source complying with the requirements in subpart SS of this part 63, the terms used in this subpart and in subpart SS of this part 63 have the meaning given them in §63.981, except as specified in §§63.8000(d)(5)(ii) and (7), 63.8010(c)(2), 63.8025(b), and paragraph (g) of this section.

(b) For an affected source complying with the requirements in subpart TT of this part 63, the terms used in this subpart and in subpart TT of this part 63 have the meaning given them in §63.1001.

(c) For an affected source complying with the requirements in subpart UU of this part 63, the terms used in this subpart and in subpart UU of this part 63 have the meaning given them in §63.1020.

(d) For an affected source complying with the requirements in subpart WW of this part 63, the terms used in this subpart and subpart WW of this part 63 have the meaning given them in §63.1061, except as specified in §§63.8000(d)(7), 63.8010(c)(2), and paragraph (g) of this section.

(e) For an affected source complying with requirements in §§63.1253, 63.1257, and 63.1258, the terms used in this subpart and in §§63.1253, 63.1257, and 63.1258 have the meaning given them in §63.1251, except as specified in §63.8000(d)(7) and paragraph (g) of this section.

(f) For an affected source complying with the requirements of §63.104, the terms used in this subpart and in §63.104 have the meaning given them in §63.101, except as specified in §63.8000(d)(7) and paragraph (g) of this section.

(g) All other terms used in this subpart are defined in the CAA, in 40 CFR 63.2, and in this paragraph (g). If a term is defined in §63.2, §63.981, §63.1001, §63.1020, §63.1061, or §63.1251 and in this paragraph (g), the definition in this paragraph (g) applies for the purposes of this subpart.

Bulk loading means the loading, into a tank truck or rail car, of liquid coating products that contain one or more of the organic HAP, as defined in section 112 of the CAA, from a loading rack. A loading rack is the system used to fill tank trucks and railcars at a single geographic site.

Coating means any material such as a paint, ink, or adhesive that is intended to be applied to a substrate and consists of a mixture of resins, pigments, solvents, and/or other additives. Typically, these materials are described by Standard Industry Classification (SIC) codes 285 or 289 and North American Industry Classification System (NAICS) codes 3255 and 3259.

Construction means the onsite fabrication, erection, or installation of an affected source. Addition of new equipment to an affected source does not constitute construction, but it may constitute reconstruction of the affected source if it satisfies the definition of reconstruction in §63.2.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

- (1) Fails to meet any requirement or obligation established by this subpart including, but not limited to, any emission limit, operating limit, or work practice standard;
- (2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or
- (3) Fails to meet any emission limit, operating limit, or work practice standard in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Enhanced biological treatment system means an aerated, thoroughly mixed treatment unit(s) that contains biomass suspended in water followed by a clarifier that removes biomass from the treated water and recycles recovered biomass to the aeration unit. The mixed liquor volatile suspended solids (biomass) is greater than 1 kilogram per cubic meter throughout each aeration unit. The biomass is suspended and aerated in the water of the aeration unit(s) either by submerged air flow or mechanical agitation. A thoroughly mixed treatment unit is a unit that is designed and operated to approach or achieve uniform biomass distribution and organic compound concentration throughout the aeration unit by quickly dispersing the recycled biomass and the wastewater entering the unit.

Excess emissions means emissions greater than those allowed by the emission limit.

Group 1a storage tank means a storage tank at an existing source with a capacity greater than or equal to 20,000 gal storing material that has a maximum true vapor pressure of total organic HAP greater than or equal to 1.9 pounds per square inch, absolute (psia). Group 1a storage tank also means a storage tank at a new source with either a capacity greater than or equal to 25,000 gal storing material that has a maximum true vapor pressure of total HAP greater than or equal to 0.1 psia or a capacity greater than or equal to 20,000 gal and less than 25,000 gal storing material that has a maximum true vapor pressure of total HAP greater than or equal to 1.5 psia.

Group 1b storage tank means a storage tank at a new source that has a capacity greater than or equal to 10,000 gal, stores material that has a maximum true vapor pressure of total organic HAP greater than or equal to 0.02 psia, and is not a Group 1a storage tank.

Group 2 storage tank means a storage tank that does not meet the definition of a Group 1a or Group 1b storage tank.

Group 1 transfer operations means all bulk loading of coating products if the coatings contain greater than or equal to 3.0 million gallons per year (gal/yr) of HAP with a weighted average HAP partial pressure greater than or equal to 1.5 psia.

Group 2 transfer operations means bulk loading of coating products that does not meet the definition of Group 1 transfer operations.

Group 1 wastewater stream means a wastewater stream that contains total partially soluble and soluble HAP at an annual average concentration greater than or equal to 4,000 parts per million by weight (ppmw) and load greater than or equal to 750 pounds per year (lb/yr) at an existing source or greater than or equal to 1,600 ppmw and any partially soluble and soluble HAP load at a new source.

Group 2 wastewater stream means a wastewater stream that does not meet the definition of a Group 1 wastewater stream.

Halogenated vent stream means a vent stream determined to contain halogen atoms in organic compounds at a concentration greater than or equal to 20 ppmv as determined by the procedures specified in §63.8000(b).

Hydrogen halide and halogen HAP means hydrogen chloride, chlorine, and hydrogen fluoride.

In organic HAP service means that a piece of equipment either contains or contacts a fluid (liquid or gas) that is at least 5 percent by weight of total organic HAP as determined according to the provisions of §63.180(d). The provisions of §63.180(d) also specify how to determine that a piece of equipment is not in organic HAP service.

Large control device means a control device that controls total HAP emissions of greater than or equal to 10 tpy, before control.

Maximum true vapor pressure means the equilibrium partial pressure exerted by the total organic HAP in the stored or transferred liquid at the temperature equal to the highest calendar-month average of the liquid storage or transfer temperature for liquids stored or transferred above or below the ambient temperature or at the local maximum monthly average temperature as reported by the National Weather Service for liquids stored or transferred at the ambient temperature, as determined:

(1) In accordance with methods described in American Petroleum Institute Publication 2517, Evaporative Loss From External Floating-Roof Tanks (incorporated by reference as specified in §63.14 of subpart A of this part 63); or

(2) As obtained from standard reference texts; or

(3) As determined by the American Society for Testing and Materials Method D2879-83 (incorporated by reference as specified in §63.14 of subpart A of this part); or

(4) Any other method approved by the Administrator.

Partially soluble HAP means HAP listed in Table 7 of this subpart.

Point of determination (POD) means each point where process wastewater exits the miscellaneous coating operations.

Note to definition for point of determination: The regulation allows determination of the characteristics of a wastewater stream (1) at the point of determination or (2) downstream of the point of determination if corrections are made for changes in flow rate and annual average concentration of partially soluble and soluble HAP compounds as determined in §63.144. Such changes include losses by air emissions; reduction of annual average concentration or changes in flow rate by mixing with other water or wastewater streams; and reduction in flow rate or annual average concentration by treating or otherwise handling the wastewater stream to remove or destroy HAP.

Process vessel means any stationary or portable tank or other vessel with a capacity greater than or equal to 250 gal and in which mixing, blending, diluting, dissolving, temporary holding, and other processing steps occur in the manufacturing of a coating.

Process vessel vent means a vent from a process vessel or vents from multiple process vessels that are manifolded together into a common header, through which a HAP-containing gas stream is, or has the potential to be, released to the atmosphere. Emission streams that are undiluted and uncontrolled containing less than 50 ppmv HAP, as determined through process knowledge that no HAP are present in the emission stream or using

an engineering assessment as discussed in §63.1257(d)(2)(ii), test data using Methods 18 of 40 CFR part 60, appendix A, or any other test method that has been validated according to the procedures in Method 301 of appendix A of this part, are not considered process vessel vents. Flexible elephant trunk systems when used with closed vent systems and draw ambient air (i.e., the system is not ducted, piped, or otherwise connected to the unit operations) away from operators when vessels are opened are not process vessel vents. Process vessel vents do not include vents on storage tanks, wastewater emission sources, or pieces of equipment subject to the requirements in Table 3 of this subpart. A gas stream going to a fuel gas system is not a process vessel vent. A gas stream routed to a process for a process purpose is not a process vessel vent.

Recovery device, as used in the wastewater provisions, means an individual unit of equipment used for the purpose of recovering chemicals for fuel value (i.e., net positive heating value), use, reuse, or for sale for fuel value, use, or reuse. Examples of equipment that may be recovery devices include organic removal devices such as decanters, strippers, or thin-film evaporation units. To be a recovery device, a decanter and any other equipment based on the operating principle of gravity separation must receive only multi-phase liquid streams. A recovery device is considered part of the miscellaneous coating manufacturing operations.

Responsible official means responsible official as defined in 40 CFR 70.2.

Safety device means a closure device such as a pressure relief valve, frangible disc, fusible plug, or any other type of device which functions exclusively to prevent physical damage or permanent deformation to a unit or its air emission control equipment by venting gases or vapors directly to the atmosphere during unsafe conditions resulting from an unplanned, accidental, or emergency event. For the purposes of this subpart, a safety device is not used for routine venting of gases or vapors from the vapor headspace underneath a cover such as during filling of the unit or to adjust the pressure in response to normal daily diurnal ambient temperature fluctuations. A safety device is designed to remain in a closed position during normal operations and open only when the internal pressure, or another relevant parameter, exceeds the device threshold setting applicable to the air emission control equipment as determined by the owner or operator based on manufacturer recommendations, applicable regulations, fire protection and prevention codes and practices, or other requirements for the safe handling of flammable, combustible, explosive, reactive, or hazardous materials.

Shutdown means the cessation of operation of an affected source, any process vessels within an affected source, or equipment required or used to comply with this subpart if steps taken to cease operation differ from those under routine procedures for removing the vessel or equipment from service. Shutdown also applies to the emptying and degassing of storage tanks.

Small control device means a control device that controls total HAP emissions of less than 10 tpy, before control.

Soluble HAP means the HAP listed in Table 8 of this subpart.

Startup means the setting in operation of a new affected source. For new equipment added to an affected source, including equipment required or used to comply with this subpart, startup means the first time the equipment is put into operation. Startup includes the setting in operation of equipment any time the steps taken differ from routine procedures for putting the equipment into operation.

Storage tank means a tank or other vessel that is used to store organic liquids that contain one or more HAP as raw material feedstocks or products. The following are not considered storage tanks for the purposes of this subpart:

- (1) Vessels permanently attached to motor vehicles such as trucks, railcars, barges, or ships;
- (2) Pressure vessels designed to operate in excess of 204.9 kilopascals and without emissions to the atmosphere;
- (3) Vessels storing organic liquids that contain HAP only as impurities;
- (4) Wastewater storage tanks; and
- (5) Process vessels.

Total organic compounds or (TOC) means the total gaseous organic compounds (minus methane and ethane) in a vent stream.

Wastewater storage tank means a stationary structure that is designed to contain an accumulation of wastewater and is constructed primarily of nonearthen materials (e.g., wood, concrete, steel, plastic) which provide structural support.

Wastewater stream means water that is discarded from miscellaneous coating manufacturing operations through a POD, and that contains an annual average concentration of total partially soluble and soluble HAP compounds of at least 2,000 ppmw at any flow rate. For the purposes of this subpart, noncontact cooling water is not considered a wastewater stream.

Work practice standard means any design, equipment, work practice, or operational standard, or combination thereof, that is promulgated pursuant to section 112(h) of the Clean Air Act.

Tables to Subpart HHHHH of Part 63

As required in §63.8005, you must meet each emission limit and work practice standard in the following table that applies to your process vessels:

Table 1 to Subpart HHHHH of Part 63. Emission Limits and Work Practice Standards for Process Vessels

For each. . .	You must . . .	And you must. . .
1. Portable process vessel at an existing source	a. Equip the vessel with a cover or lid that must be in place at all times when the vessel contains a HAP.	Non applicable
2. Stationary process vessel at an existing source	a. Equip the vessel with a cover or lid that must be in place at all times when the vessel contains a HAP; or	i. Considering both capture and any combination of control (except a flare), reduce emissions by ≥ 75 percent by weight for each HAP with a vapor pressure ≥ 0.6 kPa and by ≥ 60 percent for each HAP with a vapor pressure < 0.6 kPa.
	b. Equip the vessel with a tightly fitting vented cover or lid that must be closed at all times when the vessel contains HAP.	i. Reduce emissions of each HAP with a vapor pressure ≥ 0.6 kPa by ≥ 75 percent by weight and each HAP with a vapor pressure < 0.6 kPa by ≥ 60 percent by weight by venting emissions through a closed-vent system to any combination of control devices (except a flare); or ii. Reduce emissions of total organic HAP by venting emissions from a non-halogenated vent stream through a closed-vent system to a flare; or iii. Reduce emissions of total organic HAP by venting emissions through a closed-vent

system to a condenser that reduces the outlet gas temperature to:
 <10°C if the process vessel contains HAP with a partial pressure <0.6 kPa, or
 <2°C if the process vessel contains HAP with a partial pressure ≥0.6 kPa and <17.2 kPa, or
 <-5°C if the process vessel contains HAP with a partial pressure ≥17.2 kPa.

3. Portable and stationary process vessel at a new source	a. Equip the vessel with a tightly fitting vented cover or lid that must be closed at all times when the vessel contains HAP.	i. Reduce emissions of total HAP by ≥95 percent by weight by venting emissions through a closed-vent system to any combination of control devices (except a flare); or ii. Reduce emissions of total organic HAP by venting emissions from a non-halogenated vent stream through a closed-vent system to a flare; or iii. Reduce emissions of total organic HAP by venting emissions through a closed-vent system to a condenser that reduces the outlet gas temperature to: <-4°C if the process vessel contains HAP with a partial pressure <0.7 kPa, or <-20°C if the process vessel contains HAP with a partial pressure ≥0.7 kPa and <17.2 kPa, or <-30°C if the process vessel contains HAP with a partial pressure ≥17.2 kPa.
4. Halogenated vent steam from a process vessel subject to the requirements of item 2 or 3 of this table for which you use a combustion control device to control organic HAP emissions	a. Use a halogen reduction device after the combustion control device; or b. Use a halogen reduction device before the combustion control device	i. Reduce overall emissions of hydrogen halide and halogen HAP by ≥95 percent; or ii. Reduce overall emissions of hydrogen halide and halogen HAP to ≤0.45 kilogram per hour (kg/hr). Reduce the halogen atom mass emission rate to ≤0.45 kg/hr.

As required in §63.8010, you must meet each emission limit in the following table that applies to your storage tanks:

Table 2 to Subpart HHHHH of Part 63. Emission Limits for Storage Tanks

For each. . .	Then you must. . .
1. Group 1a storage tank.	a. Comply with the requirements of subpart WW of this part, except as specified in §63.8010(b); or b. Reduce total organic HAP emissions from the storage tank by ≥90 percent by weight by venting emissions through a closed-vent system to any combination of control devices (excluding a flare); or c. Reduce total organic HAP emissions from the storage tank by venting emissions from a non-halogenated vent stream through a closed-vent system to a flare.
2. Group 1b storage tank.	a. Comply with the requirements of subpart WW of this part, except as specified in §63.8010(b); or b. Reduce total organic HAP emissions from the storage tank by ≥80 percent by weight by venting emissions through a closed-vent system to any combination of control devices (excluding a flare); or c. Reduce total organic HAP emissions from the storage tank by venting emissions from a non-halogenated vent stream through a closed-vent system to a flare.

As required in §63.8015, you must meet each requirement in the following table that applies to your equipment leaks:

Table 3 to Subpart HHHHH of Part 63. Requirements for Equipment Leaks

For all . . .	You must . . .
1. Equipment that is in organic HAP service at an existing source.	a. Comply with the requirements in §§63.424(a) through (d) and 63.428(e), (f), and (h)(4), except as specified in §63.8015(b); or b. Comply with the requirements of subpart TT of this part; or c. Comply with the requirements of subpart UU of this part, except as specified in §63.8015(c) and (d).
2. Equipment that is in organic HAP service at a new source.	a. Comply with the requirements of subpart TT of this part; or b. Comply with the requirements of subpart UU of this part, except as specified in §63.8015(c) and (d).

As required in §63.8020, you must meet each emission limit and work practice standard in the following table that applies to your wastewater streams:

Table 4 to Subpart HHHHH of Part 63. Emission Limits and Work Practice Standards for Wastewater Streams

For each . . .	You must . . .
1. Wastewater tank used to store a Group 1 wastewater stream	a. Maintain a fixed roof, which may have openings necessary for proper venting of the tank, such as pressure/vacuum vent or j-pipe vent.
2. Group 1 wastewater stream	a. Convey using hard-piping and treat the wastewater as a hazardous waste in accordance with 40 CFR part 264, 265, or 266 either onsite or offsite; or b. If the wastewater contains <50 ppmw of partially soluble HAP, you may elect to treat the wastewater in an enhanced biological treatment system that is located either onsite or offsite.

As required in §63.8025, you must meet each emission limit and work practice standard in the following table that applies to your transfer operations:

Table 5 to Subpart HHHHH of Part 63. Emission Limits and Work Practice Standards for Transfer Operations

For each . . .	You must . . .
1. Group 1 transfer operation vent stream	a. Reduce emissions of total organic HAP by ≥ 75 percent by weight by venting emissions through a closed-vent system to any combination of control devices (except a flare); or b. Reduce emissions of total organic HAP by venting emissions from a non-halogenated vent stream through a closed-vent system to a flare; or c. Use a vapor balancing system designed and operated to collect organic HAP vapors displaced from tank trucks and railcars during loading and route the collected HAP vapors to the storage tank from which the liquid being loaded originated or to another storage tank connected by a common header.
2. Halogenated Group 1 transfer operation vent stream for which you use a combustion device to control organic HAP emissions.	a. Use a halogen reduction device after the combustion device to reduce emissions of hydrogen halide and halogen HAP by ≥ 95 percent by weight or to ≤ 0.45 kg/hr; or b. Use a halogen reduction device before the combustion device to reduce the halogen atom mass emission rate to ≤ 0.45 kg/hr.

As required in §63.8030, you must meet each requirement in the following table that applies to your heat exchange systems:

Table 6 to Subpart HHHHH of Part 63. Requirements for Heat Exchange Systems

For each . . .	You must . . .
Heat exchange system, as defined in §63.101	Comply with the requirements in §63.104, except as specified in §63.8030.

As specified in §63.8020, the partially soluble HAP in wastewater that are subject to management and treatment requirements in this subpart are listed in the following table:

Table 7 to Subpart HHHHH of Part 63. Partially Soluble Hazardous Air Pollutants

Chemical name . . .	CAS No.
1. 1,1,1-Trichloroethane (methyl chloroform)	71556
2. 1,1,2,2-Tetrachloroethane	79345
3. 1,1,2-Trichloroethane	79005
4. 1,1-Dichloroethylene (vinylidene chloride)	75354
5. 1,2-Dibromoethane	106934
6. 1,2-Dichloroethane (ethylene dichloride)	107062
7. 1,2-Dichloropropane	78875
8. 1,3-Dichloropropene	542756
9. 2,4,5-Trichlorophenol	95954
10. 2-Butanone (MEK)	78933
11. 1,4-Dichlorobenzene	106467
12. 2-Nitropropane	79469
13. 4-Methyl-2-pentanone (MIBK)	108101
14. Acetaldehyde	75070
15. Acrolein	107028
16. Acrylonitrile	107131
17. Allyl chloride	107051
18. Benzene	71432

19. Benzyl chloride	100447
20. Biphenyl	92524
21. Bromoform (tribromomethane)	75252
22. Bromomethane	74839
23. Butadiene	106990
24. Carbon disulfide	75150
25. Chlorobenzene	108907
26. Chloroethane (ethyl chloride)	75003
27. Chloroform	67663
28. Chloromethane	74873
29. Chloroprene	126998
30. Cumene	98828
31. Dichloroethyl ether	111444
32. Dinitrophenol	51285
33. Epichlorohydrin	106898
34. Ethyl acrylate	140885
35. Ethylbenzene	100414
36. Ethylene oxide	75218
37. Ethylidene dichloride	75343
38. Hexachlorobenzene	118741
39. Hexachlorobutadiene	87683
40. Hexachloroethane	67721
41. Methyl methacrylate	80626
42. Methyl-t-butyl ether	1634044
43. Methylene chloride	75092
44. N-hexane	110543
45. N,N-dimethylaniline	121697
46. Naphthalene	91203

47. Phosgene	75445
48. Propionaldehyde	123386
49. Propylene oxide	75569
50. Styrene	100425
51. Tetrachloroethylene (perchloroethylene)	79345
52. Tetrachloromethane (carbon tetrachloride)	56235
53. Toluene	108883
54. Trichlorobenzene (1,2,4-)	120821
55. Trichloroethylene	79016
56. Trimethylpentane	540841
57. Vinyl acetate	108054
58. Vinyl chloride	75014
59. Xylene (m)	108383
60. Xylene (o)	95476
61. Xylene (p)	106423

As specified in §63.8020, the soluble HAP in wastewater that are subject to management and treatment requirements of this subpart are listed in the following table:

Table 8 to Subpart FFFF of Part 63. Soluble Hazardous Air Pollutants

Chemical name . . .	CAS No.
1. Acetonitrile	75058
2. Acetophenone	98862
3. Diethyl sulfite	64675
4. Dimethyl hydrazine (1,1)	58147
5. Dimethyl sulfite	77781
6. Dinitrotoluene (2,4)	121142
7. Dioxane (1,4)	123911

8. Ethylene glycol dimethyl ether	
9. Ethylene glycol monobutyl ether acetate	
10. Ethylene glycol monomethyl ether acetate	
11. Isophorone	78591
12. Methanol	67561
13. Nitrobenzene	98953
14. Tolidine (o-)	95534
15. Triethylamine	121448

As required in §63.8075(a) and (b), you must submit each report that applies to you on the schedule shown in the following table:

Table 9 to Subpart HHHHH of Part 63. Requirements for Reports

You must submit a	The report must contain...	You must submit the report...
1. Precompliance report	The information specified in §63.8075(c).	At least 6 months prior to the compliance date; or for new sources, with the application for approval of construction or reconstruction.
2. Notification of compliance status report	The information specified in §63.8075(d)	No later than 150 days after the compliance date specified in §63.7995.
3. Compliance report	The information specified in §63.8075(e).	Semiannually according to the requirements in §63.8075(b).

As specified in §63.8095, the parts of the General Provisions that apply to you are shown in the following table:

Table 10 to Subpart HHHHH of Part 63. Applicability of General Provisions to Subpart HHHHH

Citation	Subject	Explanation
§63.1	Applicability	Yes

§63.2	Definitions	Yes
§63.3	Units and Abbreviations	Yes
§63.4	Prohibited Activities	Yes
§63.5	Construction/ Reconstruction	Yes
§63.6(a)	Applicability	Yes
§63.6(b)(1)-(4)	Compliance Dates for New and Reconstructed sources	Yes
§63.6(b)(5)	Notification	Yes
§63.6(b)(6)	[Reserved]	
§63.6(b)(7)	Compliance Dates for New and Reconstructed Area Sources That Become Major	Yes
§63.6(c)(1)-(2)	Compliance Dates for Existing Sources	Yes
§63.6(c)(3)-(4)	[Reserved]	
§63.6(c)(5)	Compliance Dates for Existing Area Sources That Become Major	Yes
§63.6(d)	[Reserved]	
§63.6(e)(1)-(2)	Operation & Maintenance	Yes
§63.6(e)(3)(i), (ii), and (v) through (viii)	SSMP	Yes, except information regarding Group 2 emission points and equipment leaks is not required in the SSMP, as specified in §63.8080(f).
§63.6(e)(3)(iii) and (iv)	Recordkeeping and Reporting During Startup, Shutdown, and Malfunction (SSM)	No, §§63.998(d)(3) and 63.998(c)(1)(ii)(D) through (G) specify the recordkeeping requirement for SSM events, and §63.8075(e)(5) specifies reporting requirements.
§63.6(f)(1)	Compliance Except During SSM	Yes
§63.6(f)(2)-(3)	Methods for Determining Compliance	Yes
§63.6(g)(1)-(3)	Alternative	Yes

	Standard	
§63.6(h)	Opacity/Visible Emission (VE) Standards	Only for flares for which Method 22 observations are required as part of a flare compliance assessment.
§63.6(i)(1)-(14)	Compliance Extension	Yes
§63.6(j)	Presidential Compliance Exemption	Yes
§63.7(a)(1)-(2)	Performance Test Dates	Yes, except substitute 150 days for 180 days.
§63.7(a)(3)	CAA Section 114 Authority	Yes, and this paragraph also applies to flare compliance assessments as specified under §63.997(b)(2).
§63.7(b)(1)	Notification of Performance Test	Yes
§63.7(b)(2)	Notification of Rescheduling	Yes
§63.7(c)	Quality Assurance/Test Plan	Yes, except the test plan must be submitted with the notification of the performance test if the control device controls process vessels.
§63.7(d)	Testing Facilities	Yes
§63.7(e)(1)	Conditions for Conducting Performance Tests	Yes, except that performance tests for process vessels must be conducted under worst-case conditions as specified in §63.8005.
§63.7(e)(2)	Conditions for Conducting Performance Tests	Yes
§63.7(e)(3)	Test Run Duration	Yes
§63.7(f)	Alternative Test Method	Yes
§63.7(g)	Performance Test Data Analysis	Yes
§63.7(h)	Waiver of Tests	Yes
§63.8(a)(1)	Applicability of Monitoring Requirements	Yes
§63.8(a)(2)	Performance Specifications	Yes
§63.8(a)(3)	[Reserved]	
§63.8(a)(4)	Monitoring with Flares	Yes
§63.8(b)(1)	Monitoring	Yes

§63.8(b)(2)-(3)	Multiple Effluents and Multiple Monitoring Systems	Yes
§63.8(c)(1)	Monitoring System Operation and Maintenance	Yes
§63.8(c)(1)(i)	Maintain and operate CMS	Yes
§63.8(c)(1)(ii)	Routine repairs	Yes
§63.8(c)(1)(iii)	SSMP for CMS	Yes
§63.8(c)(2)-(3)	Monitoring System Installation	Yes
§63.8(c)(4)	Requirements	Only for CEMS; requirements for CPMS are specified in referenced subpart SS of 40 CFR part 63. This subpart does not contain requirements for continuous opacity monitoring systems (COMS).
§63.8(c)(4)(i)	CMS Requirements	No. This subpart does not require COMS.
§63.8(c)(4)(ii)	CMS requirements	Yes
§63.8(c)(5)	COMS Minimum Procedures	No. This subpart does not contain opacity or VE limits.
§63.8(c)(6)	CMS Requirements	Only for CEMS; requirements for CPMS are specified in referenced subpart SS of 40 CFR part 63.
§63.8(c)(7)-(8)	CMS Requirements	Only for CEMS. Requirements for CPMS are specified in referenced subpart SS of 40 CFR part 63.
§63.8(d)	CMS Quality Control	Only for CEMS; requirements for CPMS are specified in referenced subpart SS of 40 CFR part 63.
§63.8(e)	CMS Performance Evaluation	Section 63.8(e)(6)(ii) does not apply because this subpart does not require COMS. Other sections apply only for CEMS; requirements for CPMS are specified in referenced subpart SS of 40 CFR part 63.
§63.8(f)(1)-(5)	Alternative Monitoring Method	Yes, except you may also request approval using the precompliance report
§63.8(f)(6)	Alternative to	Only for CEMS.

	Relative Accuracy Test	
§63.8(g)(1)-(4)	Data Reduction	Only when using CEMS, except §63.8(g)(2) does not apply because data reduction requirements for CEMS are specified in §63.8000(d)(4)(iv). The requirements for COMS do not apply because this subpart has no opacity or VE limits.
§63.8(g)(5)	Data Reduction	No. Requirements for CEMS are specified in §63.8000(d)(4). Requirements for CPMS are specified in referenced subpart SS of 40 CFR part 63.
§63.9(a)	Notification Requirements	Yes
§63.9(b)(1)-(5)	Initial Notifications	Yes
§63.9(c)	Request for Compliance Extension	Yes
§63.9(d)	Notification of Special Compliance Requirements for New Source	Yes
§63.9(e)	Notification of Performance Test	Yes
§63.9(f)	Notification of VE/Opacity Test	No. This subpart does not contain opacity or VE limits.
§63.9(g)	Additional Notifications When Using CMS	Only for CEMS; requirements for CPMS are specified in referenced subpart SS of 40 CFR part 63.
§63.9(h)(1)-(6)	Notification of Compliance Status	Yes, except this subpart has no opacity or VE limits, and §63.9(h)(2) does not apply because §63.8075(d) specifies the required contents and due date of the notification of compliance status report.
§63.9(i)	Adjustment of Submittal Deadlines	Yes
§63.9(j)	Change in Previous Information	No, §63.8075(e)(8) specifies reporting requirements for process changes.
§63.10(a)	Recordkeeping/	Yes

Reporting		
§63.10(b)(1)	Recordkeeping/ Reporting	Yes
§63.10(b)(2)(i)-(iv)	Records related to SSM	No, §§63.998(d)(3) and 63.998(c)(1)(ii)(D) through (G) specify recordkeeping requirements for periods of SSM.
§63.10(b)(2)(iii)	Records related to maintenance of air pollution control equipment	Yes
§63.10(b)(2)(vi), (x), and (xi)	CMS Records	Only for CEMS; requirements for CPMS are specified in referenced subpart SS of 40 CFR part 63.
§63.10(b)(2)(vii)-(ix)	Records	Yes
§63.10(b)(2)(xii)	Records	Yes
§63.10(b)(2)(xiii)	Records	Yes.
§63.10(b)(2)(xiv)	Records	Yes
§63.10(b)(3)	Records	Yes
§63.10(c)(1)-(6),(9)-(15)	Records	Only for CEMS; requirements for CPMS are specified in referenced subpart SS of 40 CFR part 63.
§63.10(c)(7)-(8)	Records	No. Recordkeeping requirements are specified in §63.8080.
§63.10(d)(1)	General Reporting Requirements	Yes
§63.10(d)(2)	Report of Performance Test Results	Yes
§63.10(d)(3)	Reporting Opacity or VE Observations	No. This subpart does not contain opacity or VE limits.
§63.10(d)(4)	Progress Reports	Yes
§63.10(d)(5)(i)	SSM Reports	No, §63.8075(e)(5) and (6) specify the SSM reporting requirements.
§63.10(d)(5)(ii)	Immediate SSM reports	No

§63.10(e)(1)-(2)	Additional CMS Reports	Only for CEMS, but §63.10(e)(2)(ii) does not apply because this subpart does not require CEMS.
§63.10(e)(3)	Reports	No. Reporting requirements are specified in §63.8075.
§63.10(e)(3)(i)-(iii)	Reports	No. Reporting requirements are specified in §63.8075
§63.10(e)(3)(iv)-(v)	Excess Emissions Reports	No. Reporting requirements are specified in §63.8075
§63.10(e)(3)(iv)-(v)	Excess Emissions Reports	No. Reporting requirements are specified in §63.8075
§63.10(e)(3)(vi-viii)	Excess Emissions Report and Summary Report	No. Reporting requirements are specified in §63.8075
§63.10(e)(4)	Reporting COMS data	No. This subpart does not contain opacity or VE limits.
§63.10(f)	Waiver for Recordkeeping/Reporting	Yes
§63.11	Flares	Yes
§63.12	Delegation	Yes
§63.13	Addresses	Yes
§63.14	Incorporation by Reference	Yes
§63.15	Availability of Information	Yes

B. State Only Enforceable Terms and Conditions

1. The insignificant emissions units located at this facility are identified in Table 5.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a permit to install for the emissions unit.

Emissions Unit ID: B007

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

Emissions Unit ID: B007
Activity Description: 28.1 MMBTU/hr Boiler

A. State and Federally Enforceable Section

I. 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
B007 - 28 MMBtu/hr distillate oil (#1 and #2 fuel oil, kerosene and diesel fuel, but excluding #4 fuel oil) and natural gas-fired boiler	OAC rule 3745-31-05(A)(3) (PTI 13-03881)	See Sections A.I.2.a-A.I.2.c below. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-10(B)(1).
	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	PE shall not exceed 0.020 pound/MMBtu of actual heat input.
	OAC rule 3745-18-06(A)	exempt pursuant to OAC rule 3745-18-06(A) when burning only natural gas (See Section A.I.2.d below.)
	OAC rule 3745-18-06(D)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	None, see Section A.I.2.e below.

| OAC rule 3745-23-06(B)

| None, see Section A.I.2.f below.

2. Additional Terms and Conditions

2.a Emissions from the combustion of natural gas shall not exceed:

0.053 pound PE/hour*, 0.233 ton PE/year*
0.017 pound SO₂/hour*, 0.074 ton SO₂/year*
0.154 pound VOC/hour*, 0.675 ton VOC/year*
2.80 pounds NO_x/hour*; 12.26 tons NO_x/year*
2.35 pounds CO/hour*, 10.30 tons CO/year*

*The pound/hour and ton/year emission limitations are based on the emissions unit's potentials to emit while burning natural gas. Therefore, no record keeping, reporting, or testing requirements are necessary to ensure compliance with these emission limitations.

2.b Emissions from the combustion of distillate oil shall not exceed:

0.42 pound PE/hour*
14.73 pounds SO₂/hour*
0.07 pound VOC/hour*
4.15 pounds NO_x/hour*
1.04 pounds CO/hour*

1.0 ton of PE per year as a rolling, twelve-month summation
35.5 tons of SO₂ per year as a rolling, twelve-month summation
0.2 ton of VOC per year as a rolling, twelve-month summation
10.0 tons of NO_x per year as a rolling, twelve-month summation
2.5 tons of CO per year as a rolling, twelve-month summation

*The pound/hour limitations are based on the emissions unit's potentials to emit while burning distillate oil. Therefore, no record keeping, reporting, or testing requirements are necessary to ensure compliance with these emission limitations.

2.c The quality of the oil burned in this emissions unit shall have a combination of sulfur content and heat content sufficient to comply with an emission limitation of 0.526 pound SO₂/MMBtu of actual heat input. The sulfur content of the distillate oil burned in this emissions unit shall not exceed 0.5% by weight.

Compliance with the above-mentioned specifications shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil.

- 2.d OAC Chapter 3745-18-06 does not establish sulfur dioxide emission limitations for this emissions unit when burning only natural gas as fuel.
- 2.e The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03881.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.f The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03881.

II. Operational Restrictions

1. The permittee shall burn only natural gas or distillate oil in this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or distillate oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with ASTM method D4294 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)

Emissions Unit ID: B007

4. The permittee shall maintain monthly records of the total gallons of distillate oil burned in this emissions unit.
5. The permittee shall maintain monthly records of the rolling, twelve-month summation of the total gallons of distillate oil burned in this emissions unit.
6. The permittee shall maintain monthly records of rolling, twelve-month summations of emissions of PE, SO₂, VOC, NO_x, and CO when distillate oil is burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or distillate oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit quarterly deviation (excursion) reports that identify each shipment of oil that exceeds the 0.526 pound SO₂/MMBtu limitation and each shipment of oil that contains greater than 0.5%, by weight, sulfur.
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, twelve-month distillate oil usage limitation or PE, SO₂, VOC, NO_x, and CO emission limitations for this emissions unit.
4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in the General Terms and Conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations contained in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
2. Emission Limitations:
Emissions from the combustion of natural gas shall not exceed:
0.053 pound PE/hour, 0.233 ton PE/year
0.017 pound SO₂/hour, 0.074 ton SO₂/year
0.154 pound VOC/hour, 0.675 ton VOC/year
2.80 pounds NO_x/hour; 12.26 tons NO_x/year
2.35 pounds CO/hour, 10.30 tons CO/year

Applicable Compliance Methods:

Compliance with the hourly emission limitations may be determined by multiplying the emissions unit's maximum hourly natural gas usage (28,000 ft³/hour) by the appropriate emission factor for each pollutant from USEPA's Compilation of Air Pollutant Emission Factors,

Emissions Unit ID: B007

AP-42, Fifth Edition or the most recent edition of AP-42, Table 1.4-2 (7/98) for natural gas (pounds/MMft³).

The annual emission limitations were established by multiplying the maximum hourly emission limitations by 8760 hours per year and dividing by 2000 pounds per ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission testing conducted in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

3. Emission Limitations:
Emissions from the combustion of distillate oil shall not exceed:
0.42 pound PE/hour
14.73 pounds SO₂/hour
0.07 pound VOC/hour
4.15 pounds NO_x/hour
1.04 pounds CO/hour

Applicable Compliance Methods:

Compliance with the hourly emission limitations may be determined by multiplying the emissions unit's maximum hourly distillate oil usage (204 gallons/hour) by the appropriate emission factors for each pollutant from USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition or the most recent edition of AP-42, Table 1.3-1 for distillate oil (pounds/1000 gallon).

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission testing conducted in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

4. Emission Limitations:
Emissions from the combustion of distillate oil shall not exceed:
1.0 ton of PE per year as a rolling, twelve-month summation
0.2 ton of VOC per year as a rolling, twelve-month summation
10.0 tons of NO_x per year as a rolling, twelve-month summation
2.5 tons of CO per year as a rolling, twelve-month summation:
35.5 tons of SO₂ per year as rolling, twelve-month summation

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the updated rolling, twelve-month distillate oil usage, in gallons, from Section A.III.5 by the appropriate emission factor for each pollutant from USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition or the most recent

edition of AP-42, Table 1.3-1 for distillate oil (pounds/1000 gallon), and dividing by 2000 lbs/ton.

5. Emission Limitation:
0.526 pound SO₂/MMBtu of actual heat input and a maximum sulfur content of 0.5% by weight

Applicable Compliance Method:

Compliance shall be based on the record keeping in Section A.III.

If required, the permittee shall demonstrate compliance with the pound SO₂/MMBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

6. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Emissions Unit ID: B007

Applicable Compliance Method:

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

7. Emission Limitation:

PE shall not exceed 0.020 pound/MMBtu actual heat input.

Applicable Compliance Method:

When firing natural gas, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (28,000 ft³/hour) by the emission factor from USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition or the most recent edition of AP-42, Table 1.4-2 (7/98) for filterable particulates in natural gas combustion (1.9 pounds of particulates/MMft³), and dividing by the maximum hourly heat input capacity of the emissions unit (28 MMBtu/hour).

When firing distillate oil, compliance with this emission limitation may be demonstrated by multiplying the maximum distillate oil burning capacity of the emissions unit (204 gallon/hour) by the emission factor from USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition or the most recent edition of AP-42, Table 1.3-1 (9/98) for filterable particulates in distillate oil combustion (2 pounds of particulates/1000 gallon), and dividing by the maximum hourly heat input capacity of the emissions unit (28 MMBtu/hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9) while firing distillate oil.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>

2. **Additional Terms and Conditions**

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Emissions Unit ID: K201

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

Emissions Unit ID: K201
Activity Description: REECO II Controlled Laboratory Sources

A. State and Federally Enforceable Section

I. 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
K201 - paint laboratory operations (see Table 2: Paint Laboratory Operations Emissions Units), controlled by a water curtain or dry filtration system located upstream of a REECO (Regenerative Environmental Equipment Company) regenerative thermal incinerator (REECO II)	OAC rule 3745-31-05(A)(3) (PTI 13-03881)	<p>Volatile organic compounds (VOC) emissions shall not exceed 45.0 tons per year as a rolling, twelve-month summation.</p> <p>Particulate emissions (PE) shall not exceed 0.3 pound per hour* and 1.2 tons per year as a rolling, twelve-month summation*.</p> <p>*These emission limitations are based on the emissions unit's potential to emit, with controls. Therefore, no record keeping and/or reporting requirements are necessary to ensure compliance with these emission limitations.</p> <p>Visible PE from the REECO II stack shall not exceed 5% opacity, as a 6-minute average.</p> <p>There shall be no visible fugitive PE from this emissions unit.</p>

Emissions Unit ID: K201

	Natural gas combustion emissions from the burners serving the REECO II thermal incinerator shall not exceed: 0.07 lb VOC/hr*; 0.02 lb PE/hr*; 0.01 lb SO ₂ /hr*; 1.30 lbs NO _x /hr*; and 1.09 lbs CO/hr*. * This lbs/hr emission limitation is based on the emissions unit's potential to emit. Therefore, no record keeping and/or reporting requirements are necessary to ensure compliance with this emission limitation. The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-09(MM)(3). See Sections A.I.2.c-A.I.2.d below.
OAC rule 3745-21-09(MM)(3)	
OAC rule 3745-17-07(A)	The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)	The hourly 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** This emissions unit is considered to be "in operation" at any time during which any emissions unit identified in Table 2: Paint Laboratory Operations Emissions Units is in operation.
- 2.b** The permittee shall vent all of the PE to a water curtain system or dry filtration system at all times when this emissions unit is in operation.

Emissions Unit ID: K201

- 2.c** Except as otherwise provided in paragraph (MM)(4) of OAC rule 3745-21-09 (see Section A.I.2.d below), all the VOC emissions from the equipment included within the paint laboratory operations shall be vented to a control system that shall achieve a minimum control efficiency of 90.0 percent, by weight, for the VOC emissions or a maximum outlet VOC concentration of twenty parts per million, by volume, dry basis.
- 2.d** The requirements of OAC rule 3745-21-09 (MM)(3) shall not apply to any specific piece of equipment included within the paint laboratory operations during the processing or use of a waterbased paint material in said equipment, provided the following three conditions are met:
- i. the equipment is dedicated solely to the production of waterbased paint materials;
 - ii. the VOC content of each waterbased paint material is less than or equal to 12.0 percent VOC by weight as determined under paragraph (B) of OAC rule 3745-21-10; and
 - iii. any VOC emissions from the processing or use of the waterbased paint materials that are not vented to the control systems specified in paragraph (MM)(3) of OAC rule 3745-21-09(MM) are included (accounted for) in a permit to install issued by the Director after August 22, 1990 pursuant to OAC Chapter 3745-31. These permits to install are identified in Table A: List of Permits of Install Issued to PPG Industries Ohio, Inc., Cleveland, Ohio.

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.
2. The permittee shall operate a water curtain system or dry filtration system at all times when the associated paint laboratory operation is in operation.

(Spray booths are utilized to coat metal panels for automotive coating quality control/assurance and product development.

The spray booths are located within laboratory rooms segregated from office areas by doors and a hallway within the plant multi-floor building. The doors to the lab areas remain closed at all times. The entire building is equipped with an environmental air handling system to maintain temperature and humidity to meet proper spraying specifications. As such, the building is equipped with sealed casement windows that may not be opened to the outside. Beyond the labs and office areas, secondary means of egress are provided into the building at ground level.

Emissions Unit ID: K201

Each spray booth in the lab, under induced draft ventilation, is equipped with either a water curtain or a dry filter system to control overspray particulate emissions. The air stream from each spray booth is vented and controlled by the REECO II thermal incinerator. The spray booth is engineered and designed to trap paint overspray from the coating of the panels. If insufficient capture exists during the spraying, the operation is immediately discontinued.)

3. The permittee shall burn only natural gas in the burners serving the REECO II thermal incinerator controlling this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information each day for the control equipment when this emissions unit is in operation:

- a. a log of downtime for the control device, monitoring equipment and the associated emissions unit; and
 - b. all 3-hour blocks of time (when the emissions unit was in operation) during which the average incineration temperature was more than 50 degrees Fahrenheit below the average incineration temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
2. For any specific equipment included within the paint laboratory operations, for which the permittee claims an exemption from the requirements of paragraph (MM)(3) of OAC rule 3745-21-09, pursuant to paragraph (MM)(4) of OAC rule 3745-21-09, the permittee shall keep daily records of the periods of time during which there is no laboratory activity at said equipment.
 3. The permittee shall maintain daily records that document any time periods when a water curtain system or dry filtration system was not in service when the associated paint laboratory operation was in operation.
 4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the REECO II stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in

Emissions Unit ID: K201

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.

If the weekly checks show no visible emissions for 12 consecutive weeks, the required frequency of visible emissions checks may be reduced to monthly (once per month, when the emissions unit is in operation). If a subsequent check indicates visible emissions, the frequency of visible emissions checks shall revert to weekly until such time as there are 12 consecutive weeks of no visible emissions.

5. For each day during which the permittee burns a fuel other than natural gas in the burners serving the REECO II thermal incinerator controlling this emissions unit, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
6. The permittee shall keep monthly records of the operating hours (on-line time) and the downtime (off-line time) of the thermal incinerator while the emissions unit was in operation.
7. The permittee shall keep monthly records of the hours of operation of this emissions unit.
8. The permittee shall maintain monthly records (including the calculations) of the rolling, twelve-month VOC emissions, in tons.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in the burners serving the REECO II thermal incinerator controlling this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify the Cleveland Division of Air Quality in writing of any record showing that a water curtain system or dry filtration system was not in service when the associated paint laboratory operation was in operation. The notification shall include a copy of such record and shall be sent to the Cleveland Division of Air Quality within 30 days after the event occurs.
3. The permittee shall submit quarterly temperature deviation (excursion) reports that identify all 3-hour blocks of time (when the emissions unit was in operation) during which the average combustion temperature within the thermal incinerator was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

Emissions Unit ID: K201

4. The permittee shall submit quarterly deviation (excursion) reports that identify each month during which the VOC emission rate exceeded the limitation in Section A.I.1.
5. Except as otherwise provided in paragraph (MM)(4) of OAC rule 3745-21-09 (see Section A.I.2.d), the permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the REECO II thermal incinerator was not in service when the emissions unit was in operation.
6. The quarterly deviation (excursion) reports shall be submitted in accordance with the General Terms and Conditions of this permit.
7. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the REECO II stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible PE. These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous six-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:
VOC emissions shall not exceed 45.0 tons per year as a rolling, twelve-month summation.

Applicable Compliance Method:

The permittee shall calculate the monthly VOC emissions from the paint laboratory operations as follows:

Controlled monthly emissions = "on-line" hours/month of the thermal incinerator recorded in Section A.III.6 X 8.0 pounds VOC/hour* X 1 ton/2000 pounds

Uncontrolled monthly emissions = "off-line" hours/month of the thermal incinerator recorded in Section A.III.6 X 21.6 pounds VOC/hour* X 1 ton/2000 pounds

Total monthly actual emissions = Controlled monthly emissions + Uncontrolled monthly emissions

The permittee shall calculate the rolling, twelve-month VOC emissions as the sum of the VOC emissions from the current calendar month and the previous 11 calendar months.

* These emission factors are based upon emission testing conducted in March, 1996 which demonstrated an average inlet VOC emission rate of 21.6 pounds/hour and an

Emissions Unit ID: K201

average outlet VOC emission rate of 8.0 pounds/hour. The permittee shall use the emission factors from the most recent emission test that demonstrated the emissions unit was in compliance for purposes of this calculation.

1.b Emission Limitations:

Particulate emissions (PE) shall not exceed 0.3 pound per hour and 1.2 tons per year as a rolling, twelve-month summation.

Applicable Compliance Method:

The PE limitations were established as follows:

$E = \text{Maximum coating solids usage rate (in pounds per hour)} \times (1 - TE) \times (1 - CE)$;
where

$E = \text{Actual worst case PE rate, in pounds per hour}$

Maximum coating solids usage rate for all 82 spray booths = $(21,550 \text{ gals paint/yr} \times 6.5 \text{ lbs PE/gal}) / (8760 \text{ hrs/yr}) = 15.99 \text{ lbs PE/hr}$

$TE = \text{Transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, expressed as a fraction (0.65)}$

$CE = \text{Control efficiency of the PE control equipment, expressed as a fraction (0.95)}$

Using the above equation, $E = 0.3 \text{ lb PE/hr}$

Annual PE is estimated as: $0.3 \text{ lb PE/hr} \times (\text{total hours per rolling 12-month period}) / (2000 \text{ lbs/ton}) = \text{tons PE per year.}$

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

1.c Emission Limitation:

Visible PE from the REECO II stack shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:

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

1.d Emission Limitation:

There shall be no visible fugitive PE from this emissions unit.

Emissions Unit ID: K201

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

1.e Emission Limitation:

A minimum control efficiency of 90.0 percent by weight for VOC emissions or a maximum outlet VOC concentration of twenty parts per million, by volume, dry basis.

Applicable Compliance Method:

Emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance, and within 6 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the minimum control efficiency limitation or the maximum outlet VOC concentration.

The following test methods shall be employed: Methods 1-4 and 18, 25, or 25A as appropriate, of 40 CFR 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

Concurrent visible emissions observations at the REECO II stack shall be conducted during the emission testing in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Cleveland Division of Air Quality.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Cleveland Division of Air Quality. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland Division of Air Quality's refusal to accept the results of the emission test(s).

Personnel from the Cleveland Division of Air Quality shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland Division of Air Quality within 30 days following completion of the test(s). The permittee may

Facility Name: PPG Industries, Inc. - Cleveland
Facility ID: 13-18-00-0101

Emissions Unit ID: K201

request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland Division of Air Quality.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
K201 - paint laboratory operations (see Table 2: Paint Laboratory Operations Emissions Units), controlled by a water curtain or dry filtration system located upstream of a REECO (Regenerative Environmental Equipment Company) regenerative thermal incinerator (REECO II)		

2. **Additional Terms and Conditions**

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

1. Air Toxic Policy Clarifying Language

The permit to install for this emissions unit (K201) was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-

Emissions Unit ID: K201

hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the “worst case” pollutant(s):

- a. Pollutant: Xylene
TLV (ug/m³): 434,233
Maximum Hourly Emission Rate (pounds/hour): 20.0
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 30.9
MAGLC (ug/m³): 10,339
- b. Pollutant: N-butyl Acetate
TLV (ug/m³): 712,638
Maximum Hourly Emission Rate (pounds/hour): 20.0
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 30.9
MAGLC (ug/m³): 16,968
- c. Pollutant: Methyl ethyl ketone
TLV (ug/m³): 589,851
Maximum Hourly Emission Rate (pounds/hour): 20.0
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 30.9
MAGLC (ug/m³): 14,044
- d. Pollutant: Di-isobutyl ketone
TLV (ug/m³): 145,440
Maximum Hourly Emission Rate (pounds/hour): 20.0
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 30.9
MAGLC (ug/m³): 3,463

Emissions Unit ID: K201

- e. Pollutant: Ethanol
- TLV (ug/m³): 1,884,254
- Maximum Hourly Emission Rate (pounds/hour): 20.0
- Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 30.9
- MAGLC (ug/m³): 44,863
- f. Pollutant: Methyl isobutyl ketone
- TLV (ug/m³): 204,826
- Maximum Hourly Emission Rate (pounds/hour): 20.0
- Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 30.9
- MAGLC (ug/m³): 4,877

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the “Air Toxic Policy” is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the “Air Toxic Policy” will still be satisfied. If, upon evaluation, the permittee determines that the “Air Toxic Policy” will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the “Air Toxic Policy” include the following:
- changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled “American Conference of Governmental Industrial Hygienists (ACGIH),” than the lowest TLV value previously modeled;
 - changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
3. If the permittee determines that the “Air Toxic Policy” will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a “modification” under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the

Emissions Unit ID: K201

change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the “Air Toxic Policy”; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the “Air Toxic Policy” for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Emissions Unit ID: P201

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

Emissions Unit ID: P201
Activity Description: REECO I Controlled Production Sources

A. State and Federally Enforceable Section

I. 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P201 - paint manufacturing operations (see Table 3: Paint Manufacturing Operations Emissions Units), controlled by a REECO (Regenerative Environmental Equipment Company) regenerative thermal incinerator (REECO I), a stand alone primary dust collector (600-DC-1 baghouse) and three dust collectors: 9-DC-1 baghouse, 19-DC-1 baghouse, and 21-DC-1 baghouse located upstream of the REECO I thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 13-03881)	Volatile organic compounds (VOC) emissions shall not exceed 100.0 tons per year as a rolling, twelve-month summation. Particulate emissions (PE) (stack and fugitive combined) shall not exceed 1.4 pounds per hour* and 6.0 tons per year as a rolling, twelve-month summation*. *These emission limitations are based on the emissions unit's potential to emit, with controls. Therefore, no record keeping and/or reporting requirements are necessary to ensure compliance with these emission limitations. Visible PE from the REECO I stack shall not exceed 5% opacity, as a 6-minute average. Visible PE from the primary dust collector (600-DC-1 baghouse) stack shall not exceed 5% opacity, as a 6-minute average.

Emissions Unit ID: P201

	<p>Visible fugitive PE shall not exceed 5% opacity, as a 3-minute average.</p> <p>Natural gas combustion emissions from the burners serving the REECO I thermal incinerator shall not exceed:</p> <p>0.07 lb VOC/hr*; 0.02 lb PE/hr*; 0.01 lb SO₂/hr*; 1.30 lbs NO_x/hr*; and 1.09 lbs CO/hr*.</p> <p>* This lbs/hr emission limitation is based on the emissions unit's potential to emit. Therefore, no record keeping and/or reporting requirements are necessary to ensure compliance with this emission limitation.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-09(MM)(2) and 3745-17-08(B).</p>
OAC rule 3745-21-09(MM)(2)	See Sections A.I.2.d-A.I.2.e below.
OAC rule 3745-17-07(A)	The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)	The hourly emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(B)(1)	The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-08(B)	See Section A.I.2.b below.

2. Additional Terms and Conditions

- 2.a** This emissions unit is considered to be "in operation" at any time during which any emissions unit identified in Table 3: Paint Manufacturing Operations Emissions Units is in operation.
- 2.b** The permittee shall ensure that the dust collectors are operated with sufficient air volume to minimize or eliminate visible fugitive PE at the points of capture to the extent possible with good engineering design.
- 2.c** The permittee shall vent the PE from the paint manufacturing equipment listed below to the corresponding control device(s):
- i. 9-M-6 Mixer controlled by 9-DC-1 Baghouse which is exhausted to REECO I regenerative thermal incinerator;
 - ii. 19-M-01 Mixer, 19-M-02 Mixer, 19-M-03 Mixer, 19-M-04 Mixer, 19-M-05 Mixer, 19-M-06 Mixer, 19-M-08 Mixer, 19-M-09 Mixer, 19-M-10 Mixer, 19-M-11 Mixer, and 19-M-12 Mixer controlled by 19-DC-1 Baghouse which is exhausted to REECO I regenerative thermal incinerator;
 - iii. 21-M-01 Mixer controlled by 21-DC-1 Baghouse which is exhausted to REECO I regenerative thermal incinerator; and
 - iv. 600-PA-1 Pigment Assembly controlled by a stand alone primary dust collector 600-DC-1 Baghouse.
- 2.d** Except as otherwise provided in paragraph (MM)(4) of OAC rule 3745-21-09 (see Section A.I.2.e below), the VOC emissions from the equipment included within the paint manufacturing operations shall be vented either directly or by means of a building or local area exhaust to a control system that shall maintain compliance with any of the following requirements:
- i. a minimum control efficiency of 98.0 percent by weight for the VOC emissions;
 - ii. a maximum outlet VOC concentration of twenty parts per million by volume dry basis; or
 - iii. a minimum incineration temperature of one thousand five hundred degrees Fahrenheit.
- 2.e** The requirements of OAC rule 3745-21-09 (MM)(2) shall not apply to any specific piece of equipment included within the paint manufacturing operations during the processing or use of a waterbased paint material in said equipment, provided the following three conditions are met:
- i. the equipment is dedicated solely to the production of waterbased paint materials;

Emissions Unit ID: P201

- ii. the VOC content of each waterbased paint material is less than or equal to 12.0 percent VOC by weight as determined under paragraph (B) of OAC rule 3745-21-10; and
- iii. any VOC emissions from the processing or use of the waterbased paint materials that are not vented to the control systems specified in paragraph (MM)(2) of OAC rule 3745-21-09(MM) are included (accounted for) in a permit to install issued by the Director after August 22, 1990 pursuant to OAC Chapter 3745-31. These permits to install are identified in Table A: List of Permits of Install Issued to PPG Industries Ohio, Inc., Cleveland, Ohio.

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.
2. Any mixing or blending tank containing a paint material shall be equipped with a cover or lid that completely covers the opening of the tank, except for an opening no larger than necessary to allow for safe clearance for the mixer's shaft. Such tank shall be covered at all times during which the tank contains a paint material, except when operator access is necessary to add ingredients or take samples.
3. The permittee shall operate the PE control devices at all times when this emissions unit is in operation and pigment is being blended.
4. The permittee shall burn only natural gas in the burners serving the REECO I thermal incinerator controlling this emissions unit.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information each day for the control equipment when the emissions units are in operation:

Emissions Unit ID: P201

- a. a log of down time for the control device, monitoring equipment and the associated emissions units; and
 - b. all 3-hour blocks of time (when the emissions unit was in operation) during which the average incineration temperature was more than 50 degrees Fahrenheit below the average incineration temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
2. For any specific equipment included within the paint manufacturing operations, for which the permittee claims an exemption from the requirements of paragraph (MM)(2) of OAC rule 3745-21-09, pursuant to paragraph (MM)(4) of OAC rule 3745-21-09, the permittee shall keep daily records of the periods of time during which there is no activity at said equipment.
 3. The permittee shall maintain daily records that document any time periods when one or more of the PE control devices were not in service when the emissions unit was in operation and pigment was being blended.
 4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the REECO I stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show no visible emissions for 12 consecutive weeks, the required frequency of visible emissions checks may be reduced to monthly (once per month, when the emissions unit is in operation). If a subsequent check indicates visible emissions, the frequency of visible emissions checks shall revert to weekly until such time as there are 12 consecutive weeks of no visible emissions.

5. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the primary dust collector, 600-DC-1 stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

Emissions Unit ID: P201

If the weekly checks show no visible emissions for 12 consecutive weeks, the required frequency of visible emissions checks may be reduced to monthly (once per month, when the emissions unit is in operation). If a subsequent check indicates visible emissions, the frequency of visible emissions checks shall revert to weekly until such time as there are 12 consecutive weeks of no visible emissions.

6. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from this emissions unit. The presence or absence of any visible fugitive 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.

If the weekly checks show no visible emissions for 12 consecutive weeks, the required frequency of visible emissions checks may be reduced to monthly (once per month, when the emissions unit is in operation). If a subsequent check indicates visible emissions, the frequency of visible emissions checks shall revert to weekly until such time as there are 12 consecutive weeks of no visible emissions.

7. The permittee shall maintain monthly records of the operating hours (on-line time) and the downtime (off-line time) of the thermal incinerator while the emissions unit was in operation.
8. The permittee shall maintain monthly records of the hours of operation of this emissions unit.
9. The permittee shall maintain monthly records (including the calculations) of the rolling, twelve-month VOC emissions, in tons, from this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in the burners serving the REECO I thermal incinerator controlling this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify the Cleveland Division of Air Quality in writing of any record showing that any of the PE control devices was not in service when the associated paint manufacturing equipment was in operation and pigment was being blended. The notification shall include a copy of such record and shall be sent to the Cleveland Division of Air Quality within 30 days after the event occurs.
3. The permittee shall submit quarterly temperature deviation (excursion) reports that identify all 3-hour blocks of time (when the emissions unit was in operation) during which the average

Emissions Unit ID: P201

combustion temperature within the thermal incinerator was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

4. The permittee shall submit quarterly deviation (excursion) reports that identify each month during which the VOC emission rate exceeded the limitation in Section A.I.1.
5. Except as otherwise provided in paragraph (MM)(4) of OAC rule 3745-21-09 (see Section A.I.2.e), the permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the REECO I thermal incinerator was not in service when the emissions unit was in operation.
6. The quarterly deviation (excursion) reports shall be submitted in accordance with the General Terms and Conditions of this permit.
7. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the REECO I stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible PE. These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous six-month period.
8. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the from the primary dust collector, 600-DC-1 stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible PE. These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous six-month period.
9. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive emissions were observed from the egress points of the buildings serving this emissions unit where powdered raw materials are transferred into process equipment and (b) describe any corrective actions taken to eliminate the visible fugitive emissions. These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous six-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:
VOC emissions shall not exceed 100.0 tons per year as a rolling, twelve-month summation.

Applicable Compliance Method:

Emissions Unit ID: P201

The permittee shall calculate the monthly VOC emissions from the paint manufacturing operations as follows:

Controlled monthly emissions = “on-line” hours/month of the thermal incinerator recorded in Section A.III.7 X 6.9 pounds VOC/hour* X 1 ton/2000 pounds

Uncontrolled monthly emissions = “off-line” hours/month of the thermal incinerator recorded in Section A.III.7 X 61.8 pounds VOC/hour* X 1 ton/2000 pounds

Total monthly actual emissions = Controlled monthly emissions + Uncontrolled monthly emissions

The permittee shall calculate the rolling, twelve-month VOC emissions as the sum of the VOC emissions from the current calendar month and the previous 11 calendar months.

* These emission factors are based upon emission testing conducted in May, 2003 which demonstrated an average inlet VOC emission rate of 61.8 pounds/hour and an average outlet VOC emission rate of 6.9 pounds/hour. The permittee shall use the emission factors from the most recent emission test that demonstrated the emissions unit was in compliance for purposes of this calculation.

1.b Emission Limitations:

Particulate emissions (PE) (stack and fugitive combined) shall not exceed 1.4 pounds per hour and 6.0 tons per year as a rolling, twelve-month summation.

Applicable Compliance Method:

Actual, rolling, 12-month PE rate (stack and fugitive combined) = (rolling, 12-month pigment usage) X (0.01 pound PE/pound pigment*) X (1-0.99**) X (1 ton/2000 pounds) + (rolling, 12-month pigment usage) X (0.01 pound PE/pound pigment*) X (1- 0.995***) X (1 ton/2000 pounds) = tons PE/year

*The emission factor in USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Section 6.4, Table 6.4-1, Uncontrolled Emission Factors for Paint and Varnish Manufacturing, (5/83) for PE is 20 pounds PE per ton pigment or 1% loss (equivalent to 1 pound PE per 100 pounds pigment or 0.01 pound PE/pound pigment).

**estimated control efficiency of the baghouses, expressed as a fraction

***estimated PE capture efficiency of the hooding, expressed as a fraction

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

1.c Emission Limitation:

Visible PE from the REECO I stack shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:

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

1.d Emission Limitation:

Visible PE from the primary dust collector (600-DC-1 baghouse) stack shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:

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

1.e Emission Limitation:

Visible fugitive PE shall not exceed 5% opacity, as a 3-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

- 1.f Emission testing shall be conducted within 6 months prior to permit expiration in order to establish up-to-date VOC emission factors for calculating the monthly VOC emissions from the paint manufacturing operations as specified in Section A.V.1.a and to demonstrate compliance with the minimum control efficiency limitation, the maximum outlet VOC concentration, or the minimum incineration temperature of one thousand five hundred degrees Fahrenheit.

The following test methods shall be employed: Methods 1-4 and 18, 25, or 25A as appropriate, of 40 CFR 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

Concurrent visible emissions observations at the REECO I stack shall be conducted during the emission testing in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

Concurrent visible emissions observations at the primary dust collector (600-DC-1 baghouse) stack shall be conducted during the emission testing in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

Emissions Unit ID: P201

Concurrent visible fugitive emissions observations at the building egress points of the buildings serving this emissions unit where powdered raw materials are transferred into process equipment shall be conducted during the emission testing in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Cleveland Division of Air Quality.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Cleveland Division of Air Quality. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland Division of Air Quality's refusal to accept the results of the emission test(s).

Personnel from the Cleveland Division of Air Quality shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P201 - paint manufacturing operations (see Table 3: Paint Manufacturing Operations Emissions Units), controlled by a REECO (Regenerative Environmental Equipment Company) regenerative thermal incinerator (REECO I), a stand alone primary dust collector (600-DC-1 baghouse) and three dust collectors: 9-DC-1 baghouse, 19-DC-1 baghouse, and 21-DC-1 baghouse located upstream of the REECO I thermal incinerator		

2. **Additional Terms and Conditions**

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

1. Air Toxic Policy Clarifying Language

The permit to install for this emissions unit (P201) was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

- a. Pollutant: Xylene
TLV (ug/m³): 434,233
Maximum Hourly Emission Rate (pounds/hour): 50.0
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 77.2
MAGLC (ug/m³): 10,339
- b. Pollutant: N-butyl Acetate
TLV (ug/m³): 712,638
Maximum Hourly Emission Rate (pounds/hour): 50.0
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 77.2
MAGLC (ug/m³): 16,968
- c. Pollutant: Methyl ethyl ketone
TLV (ug/m³): 589,851
Maximum Hourly Emission Rate (pounds/hour): 50.0
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 77.2
MAGLC (ug/m³): 14,044

Emissions Unit ID: P201

- d. Pollutant: Di-isobutyl ketone
TLV (ug/m³): 145,440
Maximum Hourly Emission Rate (pounds/hour): 50.0
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 77.2
MAGLC (ug/m³): 3,463
- e. Pollutant: Ethanol
TLV (ug/m³): 1,884,254
Maximum Hourly Emission Rate (pounds/hour): 50.0
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 77.2
MAGLC (ug/m³): 44,863
- f. Pollutant: Methyl isobutyl ketone
TLV (ug/m³): 204,826
Maximum Hourly Emission Rate (pounds/hour): 50.0
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 77.2
MAGLC (ug/m³): 4,877

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the “Air Toxic Policy” is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the “Air Toxic Policy” will still be satisfied. If, upon evaluation, the permittee determines that the “Air Toxic Policy” will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the “Air Toxic Policy” include the following:
- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled “American Conference of Governmental Industrial Hygienists (ACGIH),” than the lowest TLV value previously modeled;

Emissions Unit ID: P201

- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
3. If the permittee determines that the “Air Toxic Policy” will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a “modification” under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the “Air Toxic Policy”; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the “Air Toxic Policy” for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Emissions Unit ID: P202

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

Emissions Unit ID: P202
Activity Description: Waterbased Control Exempt Sources

A. State and Federally Enforceable Section

I. 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P202 - dedicated waterbased paint production equipment as defined in OAC rule 3745-21-09(MM)(4) (see Table 4: Dedicated Waterbased Paint Production Equipment)	OAC rule 3745-31-05(A)(3) (PTI 13-03881)	<p>Volatile organic compounds (VOC) emissions shall not exceed 5.0 tons per year as a rolling, twelve-month summation.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(MM)(4).</p>
	OAC rule 3745-21-09(MM)(4)	See Section A.I.2.a below.

2. Additional Terms and Conditions

- 2.a The requirements of paragraphs (MM)(2) and (MM)(3) of OAC rule 3745-21-09(MM) shall not apply to any specific piece of equipment included within the paint manufacturing operations or the paint laboratory operations during the processing or use of a waterbased paint material in said equipment, provided the following three conditions are met:
 - i. the equipment is dedicated solely to the production of waterbased paint materials;
 - ii. the VOC content of each waterbased paint material is less than or equal to 12.0 percent VOC by weight as determined under paragraph (B) of OAC rule 3745-21-10; and

Emissions Unit ID: P202

- iii. any VOC emissions from the processing or use of the waterbased paint materials that are not vented to the control systems specified in paragraphs (MM)(2) and (MM)(3) of OAC rule 3745-21-09(MM) are included (accounted for) in a permit to install issued by the Director after August 22, 1990 pursuant to OAC Chapter 3745-31. These permits to install are identified in Table A: List of Permits of Install Issued to PPG Industries Ohio, Inc., Cleveland, Ohio.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. For any specific piece of equipment included within the paint manufacturing operations or the paint laboratory operations, for which the owner or operator claims an exemption from the requirements of paragraphs (MM)(2) and (MM)(3) of OAC rule 3745-21-09(MM), pursuant to paragraph (MM)(4) of OAC rule 3745-21-09(MM), the permittee shall keep daily records of the following information:
 - a. the periods of time during which there is no production activity or laboratory activity; and
 - b. the VOC content of the waterbased paint material (in percent VOC by weight), and if applicable, the application number for the permit to install which authorizes the use of the waterbased paint materials.
2. The permittee shall maintain records (including the calculations) of the monthly and the rolling, twelve-month VOC emissions from this emissions unit, in tons.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include the following information:
 - a. An identification of each day during which the VOC content of the waterbased paint material (in percent VOC by weight) for any specific piece of equipment included within the paint manufacturing operations or the paint laboratory operations, for which the owner or operator claims an exemption from the requirements of paragraphs (MM)(2) and (MM)(3) of OAC rule 3745-21-09(MM), exceeded 12.0 percent and the actual VOC content of the waterbased paint material for each such day.
 - b. An identification of each month during which the VOC emissions exceeded the limitation in Section A.I.1.

Facility Name: PPG Industries, Inc. - Cleveland
Facility ID: 13-18-00-0101

Emissions Unit ID: P202

2. The deviation (excursion) reports shall be submitted in accordance with the General Terms and Conditions of this permit.

Emissions Unit ID: P202

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:
 VOC emissions shall not exceed 5.0 tons per year as a rolling, twelve-month summation.

Applicable Compliance Method:
 The VOC emissions from the dedicated waterbased paint production equipment shall be determined using the most recent version of USEPA's TANKS Program and the information contained in the following table.

Dimensions and Content Information for Emissions Unit P202: Process Tanks - for VOC Emission Calculation Purposes During Paint Production						
Company ID	Nominal Capacity, gallons	Diameter of tank or equivalent, feet	Height of tank, feet	Color of tank	Molecular weight of content of tank	Vapor pressure of contents of tank, psia*
22-T-48	6,000	10	10	Indoor	100	0.4
22-T-49	4,200	10	7.2	Indoor	100	0.4
22-T-50	4,000	10	6.8	Indoor	100	0.4
22-T-51	5,000	10	8.5	Indoor	100	0.4
22-T-52	5,000	10	8.5	Indoor	100	0.4
22-T-53	5,000	10	8.5	Indoor	100	0.4
22-T-54	5,000	10	8.5	Indoor	100	0.4
22-T-55	5,000	10	8.5	Indoor	100	0.4
22-T-56	20,000	12	24	Indoor	100	0.4
22-T-57	20,000	12	24	Indoor	100	0.4
22-T-63	20,000	12	24	Indoor	100	0.4
22-T-67	6,000	10	10	Indoor	100	0.4
22-T-69	6,000	10	10	Indoor	100	0.4
22-T-71	5,000	10	8.5	Indoor	100	0.4
22-T-72	5,000	10	8.5	Indoor	100	0.4
22-T-73	15,000	11.5	19	Indoor	100	0.4

Emissions Unit ID: P202

22-T-74	15,000	11.5	19	Indoor	100	0.4
---------	--------	------	----	--------	-----	-----

*maximum vapor pressure of tank materials

Dimensions and Content Information for Emissions Unit P202: Process Tanks - for VOC Emission Calculation Purposes During Process Tank Cleaning						
Company ID	Nominal Capacity, gallons	Diameter of tank or equivalent, feet	Height of tank, feet	Color of tank	Molecular weight of content of tank	Vapor pressure of contents of tank, psia*
22-T-48	6,000	10	10	Indoor	72	2.1
22-T-49	4,200	10	7.2	Indoor	72	2.1
22-T-50	4,000	10	6.8	Indoor	72	2.1
22-T-51	5,000	10	8.5	Indoor	72	2.1
22-T-52	5,000	10	8.5	Indoor	72	2.1
22-T-53	5,000	10	8.5	Indoor	72	2.1
22-T-54	5,000	10	8.5	Indoor	72	2.1
22-T-55	5,000	10	8.5	Indoor	72	2.1
22-T-56	20,000	12	24	Indoor	72	2.1
22-T-57	20,000	12	24	Indoor	72	2.1
22-T-63	20,000	12	24	Indoor	72	2.1
22-T-67	6,000	10	10	Indoor	72	2.1
22-T-69	6,000	10	10	Indoor	72	2.1
22-T-71	5,000	10	8.5	Indoor	72	2.1
22-T-72	5,000	10	8.5	Indoor	72	2.1
22-T-73	15,000	11.5	19	Indoor	72	2.1
22-T-74	15,000	11.5	19	Indoor	72	2.1

*maximum vapor pressure of tank materials

The permittee shall calculate the rolling, twelve-month VOC emissions as the sum of the VOC emissions from the current calendar month and the previous 11 calendar months.

- 1.b Emission Limitation:
 the VOC content of each waterbased paint material is less than or equal to 12.0 percent VOC by weight

Facility Name: PPG Industries, Inc. - Cleveland
Facility ID: 13-18-00-0101

Emissions Unit ID: P202

Applicable Compliance Method:

Compliance shall be demonstrated based on the record keeping in Section A.III.1.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>

2. **Additional Terms and Conditions**

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA’s “Air Toxic Policy” was not necessary because the emissions unit’s maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a “modification” as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

List of Tables

Table A: List of Permits of Install Issued to PPG Industries Ohio, Inc., Cleveland, Ohio	Page 61 of 103
Table 1: Non-Insignificant Emissions Units	Page 64 of 103
Table 2: Paint Laboratory Operations Emissions Units	Page 65 of 103
Table 3: Paint Manufacturing Operations Emissions Units	Page 73 of 103
Table 4: Dedicated Waterbased Paint Production Equipment	Page 80 of 103
Table 5: Insignificant Emissions Units	Page 81 of 103

Table A: List of Permits of Install Issued to PPG Industries Ohio, Inc., Cleveland, Ohio						
#	PTI #	Fee paid, \$	Issued / effective dates of permit to install	Former OEPA EU#s (emissions unit description)	No. of OEPA EU#	items in EU#
1	13-0153	\$130	Issued 6/13/1975; Effective on 7/28/1975	B006 & B007 (two steam boilers)	2	2
2	13-0462	\$1,680	Issued 10/18/1978; Effective on 12/2/1978	P002, P019, P029, P030, P031, K005 (formerly R011), T031, T032, T033, T034, T035, T036, T037, T038, T039, T040, T041, T042. (18 processes and 12 storage tanks)	18	30
3	13-0903	\$200	Issued & effective on 5/10/1982	P017 (4 cleaning booths and 1 condenser)	1	4
4	13-0936	\$400	Issued & effective 4/13/1982	K001 & R010 (2 paint booths and 1 drying oven)	2	3
5	13-0975	\$1,000	Issued & effective on 1/7/1983	P024, P025, P026, P027 & P028 (5 grinding mills)	5	5
6	13-0982	\$400	Issued & effective 11/20/1984	P022 & P023 (1 tank cleaning booth and 1 mix tank)	2	2
7	13-1023	\$200	Issued & effective 11/7/1984	P021 (1 tote cleaning rack)	1	1
8	13-1112	\$1,185	Issued & Issued & effective on 7/7/1983	P043, P044, P045 & P046 (14 thinning & tinting tanks, 2 mills, 3 attritors & 5 agitators)	4	24

#	PTI #	Fee paid, \$	Issued / effective dates of permit to install	Former OEPA EU#s (emissions unit description)	No. of OEPA EU#	items in EU#
9	13-1113	\$5,315	Issued & effective on 11/3/1983	K002, K003, K005, P034, P035, P038, P040, P041, P042, T043, T044, T045, T046, T047, T048, T049, T050, T051, T052, T053, T054, T119, T123, T124, T125 & T126 (6 paint booths, 14 drying ovens, 9 mixers, 19 agitators, 11 batch tanks, 1 washer tank, 17 storage tanks, 3 mills, 1 weigh scale and 1 coating line.)	26	82
10	13-1132	\$200	Issued & effective on 1/31/1984	K007 (5 paint booths and 4 drying ovens)	1	9
11	13-1219	\$400	Issued & effective on 5/23/1984	P047 & P048 (2 agitators & 2 drying ovens)	2	4
12	13-1244	\$400	Issued & effective on 8/15/1984	P050 & P051 (6 pump cleaning stations and 1 lab oven)	2	7
13	13-1245	\$595	Issued & effective on 3/24/1984	B008, P052, P053 (1 steam boiler and 2 drying ovens)	3	3
14	13-1262	\$200	Issued & effective on 7/25/1984	P054 (4 tote cleaning stations)	1	4
15	13-1267	\$400	Issued & effective on 8/15/1984	P055 & P056 (3 lab ovens)	2	3
16	13-1268	\$200	Issued & effective on 6/20/1984	K008 (36 paint booths & 41 drying ovens in Building 46A)	1	77
17	13-1280	\$600	Issued & effective on 8/15/1984	P057, P059, P083 (2 mills and 3 lab ovens)	3	5
18	13-1337	\$400	Issued & effective on 12/5/1984	P060 & P061	2	2

#	PTI #	Fee paid, \$	Issued / effective dates of permit to install	Former OEPA EU#s (emissions unit description)	No. of OEPA EU#	items in EU#
19	13-1341 mod	\$585	Issued & effective on 2/13/1985	P002 (2 storage tanks)	1	2
20	13-1419	\$200	Issued & effective on 7/3/1985	P066 (1 curing oven)	1	1
21	13-1422	\$200	Issued & effective on 8/14/1985	P067 (1 agitator)	1	1
22	13-1451	\$200	Issued & effective on 10/9/1985	P068 (pneumatic collection system)	1	1
23	13-1469	\$400	Issued & effective on 12/11/1985	P069 & P070 (6 curing ovens and 1 bag slitter)	2	7
24	13-1486	\$200	Issued & effective on 1/8/1986	P071 (2 curing ovens)	1	2
25	13-1502	\$200	Issued & effective on 1/15/1986	P072 (1 mill)	1	1
26	13-1539	\$200	Issued & effective on 5/14/1986	K009 (1 curing oven)	1	1
27	13-1541	\$200	Issued & effective on 5/2/1986	P074 (1 agitator)	1	1
28	13-1579	\$200	Issued & effective on 7/23/1986	P075 (1 curing oven)	1	1
29	13-1642 mod	\$200	Issued & effective on 5/31/1988	P071 (2 additional curing ovens)	1	1
30	13-1682	\$200	Issued & effective on 2/25/1987	P077 (1 attritor mill)	1	1
31	13-1690	\$200	Issued & effective on 4/8/1987	K010 (2 paint booths)	1	2
32	13-1702	\$200	Issued & effective on 6/24/1987	K011 (7 lab ovens)	1	7
33	13-1745	\$200	Issued & effective on 10/7/1987	P082 (1 curing oven)	1	1
34	13-1809	\$200	Issued & effective on 3/7/1990	K015 (3 paint booths and 5 lab ovens)	1	8
35	13-1826	\$585	Issued & effective on 3/7/1990	P084 & T134 (1 mixer and 1 storage tank)	2	2
36	13-1929	\$390	Issued & effective on 3/14/1990	P085 (1 mill)	1	1
37	13-2050	\$590	Issued & effective on 3/28/1990	K018 & P087 (4 ovens and 1 mill)	2	5

#	PTI #	Fee paid, \$	Issued / effective dates of permit to install	Former OEPA EU#s (emissions unit description)	No. of OEPA EU#	items in EU#
38	13-2054	\$400	Issued & effective on 3/28/1990	K019 & P088 (2 paint booths, 3 ovens and 4 agitators)	2	9
39	13-2064	\$50	Issued & effective on 4/18/1990	B009 (steam boiler)	1	1
40	13-2111	\$200	Issued & effective on 9/26/1990	P089 (1 mill)	1	1
41	13-2131	\$200	Issued & effective on 9/26/1990	K020 (1 paint booth and 2 ovens)	1	3
42	13-2179*	\$585	Issued & effective on 5/30/1991	P090 (water borne paint production)	1	1
43	13-2296	\$195	Issued & effective on 10/9/1991	T135 (1 storage tank)	1	1
44	13-2429	\$195	Issued & effective on 2/26/1992	T136 (1 waste storage tank)	1	1
45	13-2451	\$195	Issued & effective on 3/18/1992	T137 (1 waste storage tank)	1	1
46	13-2456	\$195	Issued & effective on 3/18/1992	T138 (1 resin storage tank)	1	1
47	13-2472	\$390	Issued & effective on 5/13/1992	T139 & T140 (two waste storage tanks)	2	2
48	13-2495 mod*	\$780	Issued & effective on 9/23/1992	P003 (16 water borne paint batch tanks)	1	16
49	13-2660	\$245	Issued & effective on 6/23/1993	B010 & T141 (1 snow melter and 1 oil storage tank)	2	2
50	13-3194	\$800	Issued & effective on 7/9/1997	P134 (2 processes)	1	2
		\$23,685			116	354

* The VOC emissions from the processing or use of the waterbased paint materials that are not vented to the control systems specified in paragraphs (MM)(2) and (MM)(3) of OAC rule 3745-21-09(MM) are included (accounted for) in this permit to install issued by the Director after August 22, 1990 pursuant to OAC Chapter 3745-31.

Table 1: Non-Insignificant Emissions Units

The non-insignificant emissions units included in this permit to install (PTI 13-03881) are specified in the following table

Emissions Unit ID	Emissions Unit Description
-------------------	----------------------------

1	B007	28 MMBtu/hr distillate oil (#1 and #2 fuel oil, kerosene and diesel fuel, but excluding #4 fuel oil) and natural gas-fired boiler
2	K201	paint laboratory operations (see Table 2: Paint Laboratory Operations Emissions Units), controlled by a water curtain or dry filtration systems located upstream of a REECO (Regenerative Environmental Equipment Company) regenerative thermal incinerator (REECO II)
3	P201	paint manufacturing operations (see Table 3: Paint Manufacturing Operations Emissions Units), controlled by a REECO (Regenerative Environmental Equipment Company) regenerative thermal incinerator (REECO I), a stand alone primary dust collector (600-DC-1 baghouse) and three dust collectors: 9-DC-1 baghouse, 19-DC-1 baghouse, and 21-DC-1 baghouse. located upstream of the REECO I thermal incinerator
4	P202	dedicated waterbased paint production equipment as defined in OAC rule 3745-21-09(MM)(4) (see Table 4: Dedicated Waterbased Paint Production Equipment)

Table 2: Paint Laboratory Operations Emissions Units
 As specified in OAC rule 3745-21-09(MM)(1), the paint laboratory operations under OAC rule 3745-21-09(MM)(3) include the following equipment for the processing or use of solvent based or waterbased paint materials: paint spray booths and associated ovens within the paint manufacturing quality control laboratory and the paint research laboratory.

#	Building Location	Equipment Number	Equipment Type
1	004	4-O-01	Lab Oven
2	004	4-O-02	Lab Oven
3	004	4-O-03	Lab Oven
4	004	4-O-05	Lab Oven
5	004	4-O-06	Lab Oven
6	004	4-O-07	Lab Oven
7	004	4-O-09	Lab Oven
8	004	4-O-10	Lab Oven
9	004	4-SB-1	Spraybooth
10	004	4-SB-2	Spraybooth
11	004	4-SB-3	Spraybooth
12	004	4-SB-4	Spraybooth
13	004	4-SB-5	Spraybooth
14	004	4-SB-6	Spraybooth
15	005	5-O-1	Lab Oven
16	005	5-O-13	Lab Oven
17	005	5-O-14	Lab Oven
18	005	5-O-17	Lab Oven
19	005	5-O-2	Lab Oven

#	Building Location	Equipment Number	Equipment Type
20	005	5-O-3	Lab Oven
21	005	5-O-4	Lab Oven
22	005	5-O-5	Lab Oven
23	005	5-O-6	Lab Oven
24	005	5-O-7	Lab Oven
25	005	5-O-8	Lab Oven
26	005	5-SB-1	Spraybooth
27	005	5-SB-2	Spraybooth
28	005	5-SB-3	Spraybooth
29	005	5-SB-4	Spraybooth
30	005	5-SB-5	Spraybooth
31	005	5-SB-6	Spraybooth
32	006A	6A-O-1	Lab Oven
33	006A	6A-O-2	Lab Oven
34	006A	6A-O-3	Lab Oven
35	006A	6A-O-4	Lab Oven
36	006A	6A-SB-1	Spraybooth
37	006A	6A-SB-2	Spraybooth
38	006A	6A-SB-3	Spraybooth
39	006A	6A-SB-4	Spraybooth
40	006A	6A-SB-5	Spraybooth
41	046	46-0-B01-O-01	Lab Oven

#	Building Location	Equipment Number	Equipment Type
42	046	46-0-B01-O-02	Lab Oven
43	046	46-0-B01-O-03	Lab Oven
44	046	46-0-B01-O-04	Lab Oven
45	046	46-0-B01-SB-01S	Spraybooth
46	046	46-0-B01-SB-02S	Spraybooth
47	046	46-0-B02-O-12	Lab Oven
48	046	46-0-B02-O-13	Lab Oven
49	046	46-0-B02-O-15	Lab Oven
50	046	46-0-B02-O-16	Lab Oven
51	046	46-0-B03-O-10	Lab Oven
52	046	46-0-B04-O-01	Lab Oven
53	046	46-0-B04-O-02	Lab Oven
54	046	46-0-B04-O-03	Lab Oven
55	046	46-0-B04-O-04	Lab Oven
56	046	46-0-B04-SB-01	Spraybooth
57	046	46-0-B04-SB-02	Spraybooth
58	046	46-0-B15-O-10	Lab Oven
59	046	46-0-B15-O-11	Lab Oven
60	046	46-0-B15-O-17	Lab Oven
61	046	46-0-B15-SB-03	Spraybooth
62	046	46-0-B15-SB-08	Spraybooth
63	046	46-0-SB-05	Spraybooth

#	Building Location	Equipment Number	Equipment Type
64	046	46-0-SB-07	Spraybooth
65	046	46-0-SB-09	Spraybooth
66	046	46-0-SB-10	Spraybooth
67	046	46-1-101-O-06	Lab Oven
68	046	46-1-101-O-07	Lab Oven
69	046	46-1-101-O-08	Lab Oven
70	046	46-1-101-SB-06	Spraybooth
71	046	46-1-103-SB-04	Spraybooth
72	046	46-1-103-SB-05	Spraybooth
73	046	46-1-103-SB-07	Spraybooth
74	046	46-1-105-O-01	Lab Oven
75	046	46-1-105-O-03	Lab Oven
76	046	46-1-105-O-04	Lab Oven
77	046	46-1-105-O-05	Lab Oven
78	046	46-1-105-O-09	Lab Oven
79	046	46-1-105-SB-03	Spraybooth
80	046	46-1-108-O-02	Lab Oven
81	046	46-1-108-SB-01	Spraybooth
82	046	46-1-108-SB-02	Spraybooth
83	046	46-206-2-206-O-07	Lab Oven
84	046	46-2-201-O-14	Lab Oven
85	046	46-2-201-O-15	Lab Oven

#	Building Location	Equipment Number	Equipment Type
86	046	46-2-201-O-16	Lab Oven
87	046	46-2-201-SB-09	Spraybooth
88	046	46-2-202-SB-08	Spraybooth
89	046	46-2-203-O-10	Lab Oven
90	046	46-2-203-O-11	Lab Oven
91	046	46-2-203-O-12	Lab Oven
92	046	46-2-203-O-13	Lab Oven
93	046	46-2-203-SB-05	Spraybooth
94	046	46-2-203-SB-06	Spraybooth
95	046	46-2-205-O-08	Lab Oven
96	046	46-2-205-O-09	Lab Oven
97	046	46-2-205-SB-03	Spraybooth
98	046	46-2-207-SB-12	Spraybooth
99	046	46-2-208-O-20	Lab Oven
100	046	46-2-208-O-21	Lab Oven
101	046	46-2-208-O-22	Lab Oven
102	046	46-2-208-SB-13	Spraybooth
103	046	46-2-208-SB-14	Spraybooth
104	046	46-2-210-O-18	Lab Oven
105	046	46-2-210-O-19	Lab Oven
106	046	46-2-210-SB-07	Spraybooth
107	046	46-2-211-O-16	Lab Oven

#	Building Location	Equipment Number	Equipment Type
108	046	46-2-211-O-17	Lab Oven
109	046	46-2-212-O-05	Lab Oven
110	046	46-2-212-SB-11	Spraybooth
111	046	46-2-213-O-04	Lab Oven
112	046	46-2-214-O-03	Lab Oven
113	046	46-2-214-SB-02	Spraybooth
114	046	46-2-215-O-01	Lab Oven
115	046	46-2-215-O-02	Lab Oven
116	046	46-2-215-SB-01	Spraybooth
117	046A	46A-0-B08-B-03	Spraybooth
118	046A	46A-0-B08-O-01	Lab Oven
119	046A	46A-0-B08-O-02	Lab Oven
120	046A	46A-0-B08-O-03	Lab Oven
121	046A	46A-0-B08-SB-01	Spraybooth
122	046A	46A-0-B08-SB-02	Spraybooth
123	046A	46A-0-B08-SB-04	Spraybooth
124	046A	46A-1-118-O-01	Lab Oven
125	046A	46A-1-118-O-02	Lab Oven
126	046A	46A-1-118-O-03	Lab Oven
127	046A	46A-1-118-O-04	Lab Oven
128	046A	46A-1-118-O-05	Lab Oven
129	046A	46A-1-118-O-06	Lab Oven

#	Building Location	Equipment Number	Equipment Type
130	046A	46A-1-118-O-07	Lab Oven
131	046A	46A-1-118-SB-05	Spraybooth
132	046A	46A-1-118-SB-06	Spraybooth
133	046A	46A-1-118-SB-07	Spraybooth
134	046A	46A-1-118-SB-08	Spraybooth
135	046A	46A-1-118-SB-09	Spraybooth
136	046A	46A-1-118-SB-10	Spraybooth
137	046A	46A-1-119-O-08	Lab Oven
138	046A	46A-1-119-O-09	Lab Oven
139	046A	46A-1-119-O-10	Lab Oven
140	046A	46A-1-119-O-11	Lab Oven
141	046A	46A-1-119-SB-01	Spraybooth
142	046A	46A-1-119-SB-02	Spraybooth
143	046A	46A-1-119-SB-03	Spraybooth
144	046A	46A-1-119-SB-04	Spraybooth
145	046A	46A-2-216-O-06	Lab Oven
146	046A	46A-2-216-O-07	Lab Oven
147	046A	46A-2-216-O-08	Lab Oven
148	046A	46A-2-216-O-09	Lab Oven
149	046A	46A-2-216-O-10	Lab Oven
150	046A	46A-2-216-O-11	Lab Oven
151	046A	46A-2-216-O-12	Lab Oven

#	Building Location	Equipment Number	Equipment Type
152	046A	46A-2-216-O-13	Lab Oven
153	046A	46A-2-216-O-14	Lab Oven
154	046A	46A-2-216-O-15	Lab Oven
155	046A	46A-2-216-O-16	Lab Oven
156	046A	46A-2-216-O-5	Lab Oven
157	046A	46A-2-216-SB-05	Spraybooth
158	046A	46A-2-216-SB-06	Spraybooth
159	046A	46A-2-216-SB-07	Spraybooth
160	046A	46A-2-216-SB-08	Spraybooth
161	046A	46A-2-216-SB-09	Spraybooth
162	046A	46A-2-216-SB-10	Spraybooth
163	046A	46A-2-216-SB-11	Spraybooth
164	046A	46A-2-216-SB-12	Spraybooth
165	046A	46A-2-217-O-01	Lab Oven
166	046A	46A-2-217-O-02	Lab Oven
167	046A	46A-2-217-O-03	Lab Oven
168	046A	46A-2-217-SB-03	Spraybooth
169	046A	46A-2-217-SB-04	Spraybooth
170	046A	46A-2-218-O-01	Lab Oven
171	046A	46A-2-218-O-02	Lab Oven
172	046A	46A-2-218-SB-01	Spraybooth
173	046A	46A-2-218-SB-02	Spraybooth

#	Building Location	Equipment Number	Equipment Type
174	046A	46A-3-317-O-01	Lab Oven
175	046A	46A-3-317-O-02	Lab Oven
176	046A	46A-3-317-O-03	Lab Oven
177	046A	46A-3-317-O-04	Lab Oven
178	046A	46A-3-317-O-05	Lab Oven
179	046A	46A-3-317-O-06	Lab Oven
180	046A	46A-3-317-O-07	Lab Oven
181	046A	46A-3-317-O-08	Lab Oven
182	046A	46A-3-317-O-09	Lab Oven
183	046A	46A-3-317-O-10	Lab Oven
184	046A	46A-3-317-SB-05	Spraybooth
185	046A	46A-3-317-SB-06	Spraybooth
186	046A	46A-3-317-SB-07	Spraybooth
187	046A	46A-3-317-SB-08	Spraybooth
188	046A	46A-3-317-SB-09	Spraybooth
189	046A	46A-3-317-SB-10	Spraybooth
190	046A	46A-3-319-SB-01	Spraybooth
191	046A	46A-3-319-SB-02	Spraybooth
192	046A	46A-3-319-SB-03	Spraybooth
193	046A	46A-3-319-SB-04	Spraybooth
194	022D	22D-SB-1	Spraybooth

Table 3: Paint Manufacturing Operations Emissions Units

As specified in OAC rule 3745-21-09(MM)(1), the paint manufacturing operations under OAC rule 3745-21-09(MM)(2) include the following equipment for the processing or use of solvent based or waterbased paint materials: mixing tanks for paint liquids and pigments, grinding mills, paint thinning and tinting tanks, paint filling equipment for shipping containers, cleaning equipment for paint processing equipment, and recovery equipment for the cleaning solvents.

#	Building or Location	Equipment Number	Equipment Type
1	003	3-PM-03	Premier Mill
2	003	3-PM-04	Premier Mill
3	003	3-PM-07	Premier Mill
4	003	3-PM-08	Premier Mill
5	007	7-PM-01	Premier Mill
6	007	7-PM-02	Premier Mill
7	007	7-PM-03	Premier Mill
8	007	7-PM-04	Premier Mill
9	007	7-PM-05	Premier Mill
10	007	7-PM-06	Premier Mill
11	007	7-PM-07	Premier Mill
12	007	7-PM-08	Premier Mill
13	007	7-PM-09	Premier Mill
14	007	7-PM-10	Premier Mill
15	007	7-PM-11	Premier Mill
16	008	8-T-801	Process Tank
17	008	8-T-802	Process Tank
18	008	8-T-803	Process Tank
19	008	8-T-804	Process Tank
20	008	8-T-805	Process Tank
21	008	8-T-806	Process Tank
22	008	8-T-807	Process Tank
23	008	8-T-808	Process Tank

Facility Name: PPG Industries Inc

Facility ID: 1318000101

#	Building or Location	Equipment Number	Equipment Type
24	008	8-T-809	Process Tank
25	008	8-T-811	Process Tank
26	008	8-T-812	Process Tank
27	008	8-T-813	Process Tank
28	008	8-T-814	Process Tank
29	008	8-T-815	Process Tank
30	008	8-T-816	Process Tank
31	008	8-T-819	Process Tank
32	008	8-T-820	Process Tank
33	008	8-T-821	Process Tank
34	008	8-T-822	Process Tank
35	008	8-T-823	Process Tank
36	008	8-T-824	Process Tank
37	008	8-T-825	Process Tank
38	008	8-T-826	Process Tank
39	008	8-T-827	Process Tank
40	008	8-T-828	Process Tank
41	008	8-T-829	Process Tank
42	008	8-T-830	Process Tank
43	008	8-T-831	Process Tank
44	008	8-T-832	Process Tank
45	009	9-M-2	Mixer
46	009	9-M-3	Mixer
47	009	9-M-4	Mixer
48	009	9-M-5	Mixer
49	009	9-RM-01	Rail Mixer
50	009	9-RM-02	Rail Mixer
51	009	9-RM-03	Rail Mixer

#	Building or Location	Equipment Number	Equipment Type
52	009	9-RM-04	Rail Mixer
53	009	9-RM-05	Rail Mixer
54	009	9-RM-06	Rail Mixer
55	009	9-RM-07	Rail Mixer
56	009	9-RM-08	Rail Mixer
57	009	9-RM-09	Rail Mixer
58	009	9-RM-10	Rail Mixer
59	009	9-RM-11	Rail Mixer
60	009	9-RM-12	Rail Mixer
61	009	9-RM-13	Rail Mixer
62	009	9-RM-14	Rail Mixer
63	009	9-RM-15	Rail Mixer
64	009	9-RM-16	Rail Mixer
65	009	9-RM-17	Rail Mixer
66	009	9-RM-18	Rail Mixer
67	009	9-RM-19	Rail Mixer
68	009	9-RM-20	Rail Mixer
69	009	9-RM-21	Rail Mixer
70	009	9-RM-22	Rail Mixer
71	009	9-RM-23	Rail Mixer
72	009	9-M-6	Mixer
73	012	12-CB-1	Cleaning Booth
74	012	12-CB-2	Cleaning Booth
75	012	12-CB-3	Cleaning Booth
76	012	12-CB-4	Cleaning Booth
77	012	12-CB-5	Cleaning Booth
78	012	12-T-1	Process Tank
79	012	12-T-2	Process Tank

Facility Name: PPG Industries Inc

Facility ID: 1318000101

#	Building or Location	Equipment Number	Equipment Type
80	012	12-T-3	Process Tank
81	015	15-T-2	Process Tank
82	015	15-T-3	Process Tank
83	015	15-T-4	Process Tank
84	015	15-T-5	Process Tank
85	015	15-T-6	Process Tank
86	015	15-TC-1	Tote Rinsing
87	019	19-M-01	Mixer
88	019	19-M-02	Mixer
89	019	19-M-03	Mixer
90	019	19-M-04	Mixer
91	019	19-M-05	Mixer
92	019	19-M-06	Mixer
93	019	19-M-08	Mixer
94	019	19-M-09	Mixer
95	019	19-M-10	Mixer
96	019	19-M-11	Mixer
97	019	19-M-12	Mixer
98	021	21-M-01	Mixer (garage)
99	021	21-PM-01	Premier Mill
100	021	21-PM-02	Premier Mill
101	021	21-PM-03	Premier Mill
102	021	21-PM-04	Premier Mill
103	021	21-PM-05	Premier Mill
104	021	21-PM-06	Premier Mill
105	021	21-SM-01	Sand Mill
106	021	21-T-001	Process Tank
107	021	21-T-002	Process Tank

#	Building or Location	Equipment Number	Equipment Type
108	021	21-T-003	Process Tank
109	021	21-T-004	Process Tank
110	021	21-T-005	Process Tank
111	021	21-T-006	Process Tank
112	021	21-T-007	Process Tank
113	021	21-T-008	Process Tank
114	021	21-T-013	Process Tank
115	021	21-T-014	Process Tank
116	021	21-T-017	Process Tank
117	021	21-T-018	Process Tank
118	021	21-T-030	Process Tank
119	021	21-T-031	Process Tank
120	021	21-T-032	Process Tank
121	021	21-T-033	Process Tank
122	021	21-T-034	Process Tank
123	021	21-T-035	Process Tank
124	021	21-T-036	Process Tank
125	021	21-T-037	Process Tank
126	021	21-T-038	Process Tank
127	021	21-T-039	Process Tank
128	021	21-T-040	Process Tank
129	021	21-T-041	Process Tank
130	021	21-T-042	Process Tank
131	021	21-T-043	Process Tank
132	021	21-T-044	Process Tank
133	021	21-T-045	Process Tank
134	021	21-T-046	Process Tank
135	021	21-T-047	Process Tank

Facility Name: PPG Industries Inc

Facility ID: 1318000101

#	Building or Location	Equipment Number	Equipment Type
136	021	21-T-076	Process Tank
137	021	21-TM-1	Triplex Mill
138	023	3-PM-01	Premier Mill
139	023	3-PM-02	Premier Mill
140	023	8-T-810	Process Tank
141	024	24-PM-1	Premier Mill
142	024	24-T-502	Process Tank
143	024	24-T-506	Process Tank
144	024	24-T-507	Process Tank
145	024	24-T-508	Process Tank
146	024	24-T-513	Process Tank
147	024	24-T-514	Process Tank
148	024	24-T-515	Process Tank
149	024	24-T-516	Process Tank
150	024	24-T-517	Process Tank
151	024	24-T-518	Process Tank
152	024	24-T-519	Process Tank
153	024	24-T-520	Process Tank
154	024	24-T-521	Process Tank
155	024	24-T-522	Process Tank
156	024	24-T-523	Process Tank
157	024	24-T-524	Process Tank
158	024	24-T-525	Process Tank
159	024	24-T-526	Process Tank
160	025	25-DM-1	Drais Mill
161	025	25-PM-1	Premier Mill
162	025	25-PM-2	Premier Mill
163	025	25-PM-3	Premier Mill

#	Building or Location	Equipment Number	Equipment Type
164	025	25-PM-4	Premier Mill
165	029	29-T-101	Process Tank
166	029	29-T-102	Process Tank
167	029	29-T-103	Process Tank
168	029	29-T-104	Process Tank
169	029	29-T-105	Process Tank
170	029	29-T-106	Process Tank
171	029	29-T-107	Process Tank
172	029	29-T-108	Process Tank
173	029	29-T-109	Process Tank
174	029	29-T-110	Process Tank
175	029	29-T-111	Process Tank
176	029	29-T-112	Process Tank
177	029	29-T-113	Process Tank
178	029	29-T-114	Process Tank
179	029	29-T-115	Process Tank
180	029	29-T-116	Process Tank
181	029	29-T-117	Process Tank
182	029	29-T-118	Process Tank
183	029	29-T-119	Process Tank
184	029	29-T-120	Process Tank
185	029	29-T-121	Process Tank
186	029	29-T-122	Process Tank
187	029	29-T-123	Process Tank
188	029	29-T-124	Process Tank
189	029	29-T-125	Process Tank
190	029	29-T-126	Process Tank
191	029	29-T-127	Process Tank

#	Building or Location	Equipment Number	Equipment Type
192	029	29-T-128	Process Tank
193	029	29-T-129	Process Tank
194	029	29-T-130	Process Tank
195	029	29-T-131	Process Tank
196	029	29-T-132	Process Tank
197	029	29-T-133	Process Tank
198	029	29-T-134	Process Tank
199	029	29-T-135	Process Tank
200	029	29-T-136	Process Tank
201	029	29-T-137	Process Tank
202	029	29-T-138	Process Tank
203	029	29-T-139	Process Tank
204	029	29-T-140	Process Tank
205	047	47-L-1	Thin Film Evaporator
206	047	47-L-2	Thin Film Evaporator
207	047	47-M-1	Mixer
208	047	47-R-1	Thin Film Evaporator
209	047	47-T-1	Process Distillation
220	047	47-T-2	Process Distillation
211	047	47-T-3	Process Distillation
212	047	47-T-4	Process Distillation
213	100	100-PM-01	Premier Mill
214	100	100-PM-02	Premier Mill
215	100	100-PM-03	Premier Mill
216	100	100-PM-04	Premier Mill
217	100	100-PM-05	Premier Mill
218	100	100-PM-06	Premier Mill
219	100	100-PM-07	Premier Mill

#	Building or Location	Equipment Number	Equipment Type
220	100	100-RM-01	Rail Mixer
221	100	100-RM-02	Rail Mixer

Table 4: Dedicated Waterbased Paint Production Equipment

As specified in OAC rule 3745-21-09(MM)(1), the paint manufacturing operations under OAC rule 3745-21-09(MM)(2) include the following equipment for the processing or use of solvent based or waterbased paint materials: mixing tanks for paint liquids and pigments, grinding mills, paint thinning and tinting tanks, paint filling equipment for shipping containers, cleaning equipment for paint processing equipment, and recovery equipment for the cleaning solvents.

#	Location	Equipment Number	Equipment Type
1	022	22-T-48	Process Tank
2	022	22-T-49	Process Tank
3	022	22-T-50	Process Tank
4	022	22-T-51	Process Tank
5	022	22-T-52	Process Tank
6	022	22-T-53	Process Tank
7	022	22-T-54	Process Tank
8	022	22-T-55	Process Tank
9	022	22-T-56	Process Tank
10	022	22-T-57	Process Tank
11	022	22-T-63	Process Tank
12	022	22-T-67	Process Tank

#	Location	Equipment Number	Equipment Type
13	022	22-T-69	Process Tank
14	022	22-T-71	Process Tank
15	022	22-T-72	Process Tank
16	022	22-T-73	Process Tank
17	022	22-T-74	Process Tank

Table 5: Insignificant Emissions Units

The "Ohio EPA ID" and "Equipment Description" for each emissions unit in this table shall be specified in the listing of insignificant emissions units in Part II, Section B (State Only Enforceable Section) of the facility's Title V permit.

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
1	001	1-B-1	Z001	boiler - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
2	002	2-H-1	Z002	boiler - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
3	003	3-DM-1	Z003	dispense machine	OAC 3745-15-05(B)	OAC 3745-77-011(U)(1)
4	003	3-SS-1	Z004	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
5	003	3-SS-2	Z005	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
6	003	3-SS-3	Z006	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
7	004	4-FH-1	Z007	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
8	004	4-FH-2	Z008	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
9	004	4-FH-3	Z009	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
10	004	4-FH-4	Z010	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
11	004	4-FH-5	Z011	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
12	004	4-FH-6	Z012	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
13	004	4-SS-1	Z013	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
14	004	4-SS-2	Z014	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
15	004	4-SS-3	Z015	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
16	004	4-SS-4	Z016	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
17	005	5-FH-1	Z017	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
18	005	5-FH-2	Z018	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
19	005	5-SS-1	Z019	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
20	006A	6A-FH-1	Z020	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
21	006A	6A-FH-2	Z021	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
22	006A	6A-SS-1	Z022	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
23	006A	6A-SS-2	Z023	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
24	006A	6A-SS-3	Z024	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
25	006A	6A-SS-4	Z025	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
26	006A	6A-SS-5	Z026	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
27	007	7-DS-1	Z027	draw scale	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
28	007	7-SS-1	Z028	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
29	008	8-DS-1	Z029	draw scale	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
30	008	8-DS-2	Z030	draw scale	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
31	009	9-SS-1	Z031	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
32	009A	9A-H-1	Z032	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
33	009B	9B-H-2	Z033	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
34	012	12-SS-1	Z034	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
35	012	12-SS-2	Z035	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
36	013	13-DA-01	Z036	drum agitation stations	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
37	014	14-DA-01	Z037	drum agitation stations	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
38	015	15-C-1	Z038	centrifuge no emissions	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
39	015	15-DS-1	Z039	draw scale	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
40	015	15-T-1	Z040	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
41	015A	15A-FH-1	Z041	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
42	015A	15A-FH-2	Z042	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
43	015A	15A-LB-1	Z043	lab bench	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
44	015A	15A-SS-1	Z044	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
45	016	16-T-201	Z045	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
46	016	16-T-202	Z046	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
47	016	16-T-203	Z047	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
48	016	16-T-204	Z048	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
49	016	16-T-205	Z049	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
50	016	16-T-206	Z050	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
51	016	16-T-207	Z051	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
52	016	16-T-208	Z052	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
53	016	16-T-209	Z053	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
54	016	16-T-210	Z054	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
55	016	16-T-211	Z055	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
56	016	16-T-212	Z056	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
57	016	16-T-213	Z057	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
58	016	16-T-214	Z058	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
59	016	16-T-215	Z059	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
60	016	16-T-216	Z060	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
61	016	16-T-217	Z061	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
62	016	16-T-218	Z062	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
63	016	16-T-219	Z063	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
64	016	16-T-220	Z064	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
65	016	16-T-221	Z065	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
66	016	16-T-222	Z066	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
67	016	16-T-223	Z067	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
68	016	16-T-224	Z068	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
69	020	20-T-1	Z069	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
70	021	21-DS-1	Z070	draw scale	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
71	021	21-SS-1	Z071	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
72	022	22-T-00	Z072	water storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
73	022	22-T-58	Z073	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
74	022	22-T-59	Z074	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
75	022	22-T-60	Z075	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
76	022	22-T-61	Z076	Process tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
77	022	22-T-62	Z077	Process tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
78	022	22-T-64	Z078	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
79	022	22-T-65	Z079	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
80	022	22-T-66	Z080	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
81	022	22-T-68	Z081	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
82	022	22-T-70	Z082	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
83	022A	22A-O-1	Z083	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
84	022A	22A-O-2	Z084	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
85	022A	22A-O-3	Z085	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
86	022A	22A-O-4	Z086	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
87	022A	22A-O-5	Z087	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
88	022B	22B-T-1	Z088	storage tank	OAC 3745-31-03(A)(1)(l)(iv)	OAC 3745-77-01(U)(1)
89	022B	22B-T-2	Z089	storage tank	OAC 3745-31-03(A)(1)(l)(iv)	OAC 3745-77-01(U)(1)
90	022B	22B-T-3	Z090	storage tank	OAC 3745-31-03(A)(1)(l)(i)	OAC 3745-77-01(U)(1)
91	022B	22B-T-4	Z091	storage tank	OAC 3745-31-03(A)(1)(l)(i)	OAC 3745-77-01(U)(1)
92	022D	22D-FH-1	Z092	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
93	022D	22D-FH-2	Z093	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
94	022D	22D-FH-3	Z094	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
95	022D	22D-FH-4	Z095	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
96	022D	22D-FH-5	Z096	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
97	022D	22D-FH-6	Z097	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
98	022D	22D-FH-7	Z098	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
99	022D	22D-O-1	Z099	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
100	022D	22D-O-2	Z100	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
101	022D	22D-O-3	Z101	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
102	022D	22D-O-4	Z102	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
103	022D	22D-O-5	Z103	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
104	022D	22D-O-6	Z104	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
105	022D	22D-O-7	Z105	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
106	022D	22D-O-8	Z106	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
107	022D	22D-SS-1	Z107	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
108	022D	22D-SS-2	Z108	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
109	022D	22D-SS-3	Z109	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
110	022D	22D-T-1	Z110	storage tank	OAC 3745-31-03(A)(1)(l)(iv)	OAC 3745-77-01(U)(1)
111	023	23-DM-1	Z111	dispense machine	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
112	023	23-LB-1	Z112	lab bench	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
113	023	23-SS-1	Z113	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
114	023	23-T-01	Z114	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
115	023	23-T-02	Z115	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
116	023	23-T-03	Z116	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
117	023	23-T-04	Z117	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
118	023	23-T-05	Z118	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
119	023	23-T-06	Z119	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
120	023	23-T-07	Z120	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
121	023	23-T-08	Z121	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
122	023	23-T-09	Z122	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
123	023	23-T-10	Z123	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
124	023	23-T-101	Z124	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
125	023	23-T-102	Z125	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
126	023	23-T-103	Z126	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
127	023	23-T-104	Z127	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
128	023	23-T-11	Z128	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
129	023	23-T-12	Z129	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
130	023	23-T-13	Z130	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
131	023	23-T-14	Z131	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
132	023	23-T-15	Z132	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
133	023	23-T-16	Z133	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
134	023	23-T-17	Z134	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
135	023	23-T-18	Z135	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
136	023	23-T-20	Z136	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
137	023	23-T-21	Z137	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
138	023	23-T-22	Z138	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
139	023	23-T-23	Z139	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
140	023	23-T-24	Z140	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
141	023	23-T-25	Z141	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
142	023	23-T-26	Z142	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
143	023	23-T-27	Z143	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
144	023	23-T-28	Z144	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
145	024	24-DS-1	Z145	draw scale	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
146	024	24-T-001	Z146	emergency overflow tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
147	024	24-T-002	Z147	emergency overflow tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
148	024	24-T-501	Z148	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
149	024	24-T-503	Z149	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
150	024	24-T-504	Z150	storage tank	OAC 3745-31-03(A)(1)(l)(i)	OAC 3745-77-01 (U)(1)
151	024	24-T-505	Z151	storage tank	OAC 3745-31-03(A)(1)(l)(i)	OAC 3745-77-01 (U)(1)
152	024	24-T-509	Z152	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
153	024	24-T-510	Z153	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
154	024	24-T-511	Z154	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
155	024	24-T-512	Z155	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
156	024	24-T-527	Z156	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
157	024B	24B-CB-1	Z157	tankwagon rinsing	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
158	025	25-SS-1	Z158	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
159	026	26-T-321	Z159	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
160	026	26-T-322	Z160	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
161	026	26-T-323	Z161	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
162	026	26-T-324	Z162	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
163	026	26-T-325	Z163	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
164	026	26-T-326	Z164	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
165	026	26-T-327	Z165	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
166	026	26-T-328	Z166	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
167	026	26-T-329	Z167	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
168	026	26-T-330	Z168	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
169	028	28-T-401	Z169	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
170	028	28-T-402	Z170	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
171	028	28-T-403	Z171	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
172	028	28-T-404	Z172	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
173	028	28-T-405	Z173	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
174	028	28-T-406	Z174	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
175	028	28-T-407	Z175	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
176	028	28-T-408	Z176	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
177	028	28-T-409	Z177	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
178	028	28-T-410	Z178	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
179	028	28-T-411	Z179	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
180	028	28-T-412	Z180	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
181	028	28-T-413	Z181	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
182	028	28-T-414	Z182	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
183	028	28-T-415	Z183	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
184	028	28-T-416	Z184	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
185	028	28-T-417	Z185	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
186	028	28-T-418	Z186	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
187	028	28-T-419	Z187	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
188	028	28-T-420	Z188	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
189	028	28-T-421	Z189	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
190	028	28-T-422	Z190	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
191	028	28-T-423	Z191	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
192	028	28-T-424	Z192	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
193	028	28-T-425	Z193	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
194	028	28-T-426	Z194	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
195	028	28-T-427	Z195	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
196	028	28-T-428	Z196	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
197	028	28-T-429	Z197	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
198	028	28-T-430	Z198	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
199	028	28-T-431	Z199	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
200	028	28-T-432	Z200	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
201	028	28-T-433	Z201	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
202	028	28-T-434	Z202	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
203	028	28-T-435	Z203	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
204	028	28-T-436	Z204	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
205	028	28-T-437	Z205	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
206	029	29-DS-1	Z206	draw scale	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
207	029	29-DS-2	Z207	draw scale	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
208	029	29-DS-3	Z208	draw scale	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
209	029	29-SS-1	Z209	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
220	030	30-HW-1	Z220	hot water tank - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01 (U)(3)
211	030	30-O-1	Z211	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
212	030	30-O-2	Z212	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
213	030	30-O-3	Z213	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
214	030	30-O-4	Z214	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
215	030	30-O-5	Z215	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
216	030	30-O-6	Z216	lab oven	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
217	032	32-T-101	Z217	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
218	032	32-T-102	Z218	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
219	032	32-T-103	Z219	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
220	032	32-T-104	Z220	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
221	032	32-T-105	Z221	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
222	032	32-T-106	Z222	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
223	032	32-T-107	Z223	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
224	032	32-T-108	Z224	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
225	032	32-T-109	Z225	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
226	032	32-T-110	Z226	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
227	032	32-T-111	Z227	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
228	032	32-T-112	Z228	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
229	037	37-T-301	Z229	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
230	037	37-T-302	Z230	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
231	037	37-T-303	Z231	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
232	037	37-T-304	Z232	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
233	037	37-T-306	Z233	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
234	038	38-T-307	Z234	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
235	038	38-T-308	Z235	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
236	038	38-T-309	Z236	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
237	038	38-T-310	Z237	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
238	038	38-T-311	Z238	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
239	038	38-T-312	Z239	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
240	039	39-T-313	Z240	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
241	039	39-T-314	Z241	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
242	039	39-T-315	Z242	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
243	039	39-T-316	Z243	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
244	039	39-T-317	Z244	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
245	039	39-T-318	Z245	storage tank	N/A (existing source installed pre-1974)	OAC 3745-77-01 (U)(3)
246	041	41-CO-1	Z246	waste compactor	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
247	041	41-SH-1	Z247	waste shredder	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
248	041	41-T-1	Z248	storage tank - less than 10,000-gallons; storing material less than 1.5 psia vapor pressure	OAC 3745-31-03(A)(1)(l)	OAC 3745-77-01(U)(1)
249	041	41-T-2	Z249	storage tank - less than 10,000-gallons; storing material less than 1.5 psia vapor pressure	OAC 3745-31-03(A)(1)(l)	OAC 3745-77-01(U)(1)
250	041	41-T-3	Z250	storage tank - less than 10,000-gallons; storing material less than 1.5 psia vapor pressure	OAC 3745-31-03(A)(1)(l)	OAC 3745-77-01(U)(1)
251	041	41-T-4	Z251	storage tank	OAC 3745-31-03(A)(1)(l)	OAC 3745-77-01(U)(1)
252	041	41-T-5	Z252	storage tank	OAC 3745-31-03(A)(1)(l)	OAC 3745-77-01(U)(1)
253	041	41-TC-1	Z253	trash compactor	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
254	044	44-HW-1	Z254	hot water tank - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01 (U)(3)
255	044	44-HW-2	Z255	hot water tank - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01 (U)(3)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
256	046	46-0-B02-FH-04	Z256	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
257	046	46-0-B04-FH-01	Z257	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
258	046	46-0-B15-FH-03	Z258	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
259	046	46-0-B17-FH-02	Z259	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
260	046	46-1-101-SS-11	Z260	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
261	046	46-1-102-SS-10	Z261	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
262	046	46-1-103-SS-09	Z262	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
263	046	46-1-105-SS-07	Z263	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
264	046	46-1-105-SS-08	Z264	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
265	046	46-1-107-SS-05	Z265	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
266	046	46-1-107-SS-06	Z266	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
267	046	46-1-108-SS-01	Z267	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
268	046	46-1-108-SS-04	Z268	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
269	046	46-1-109-SS-02	Z269	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
270	046	46-1-109-SS-03	Z270	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
271	046	46-1-118A-FH-03	Z271	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
272	046	46-1-118A-FH-04	Z272	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
273	046	46-1-118A-FH-04A	Z273	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
274	046	46-1-118A-FH-05	Z274	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
275	046	46-1-118A-FH-05A	Z275	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
276	046	46-1-118A-FH-05B	Z276	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
277	046	46-1-118B-FH-06	Z277	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
278	046	46-1-118B-FH-06A	Z278	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
279	046	46-1-118B-FH-06B	Z279	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
280	046	46-1-118C-FH-07	Z280	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
281	046	46-1-118C-FH-08	Z281	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
282	046	46-1-118C-FH-08A	Z282	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
283	046	46-1-118C-FH-08B	Z283	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
284	046	46-1-119-FH-02	Z284	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
285	046	46-2-108-FH-18	Z285	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
286	046	46-2-201-FH-12	Z286	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
287	046	46-2-201-SS-12	Z287	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
288	046	46-2-202-H-13	Z288	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
289	046	46-2-202-SS-13	Z289	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
290	046	46-2-203-FH-14	Z290	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
291	046	46-2-203-FH-15	Z291	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
292	046	46-2-203-FH-26A	Z292	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
293	046	46-2-203-SS-14	Z293	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
294	046	46-2-203-SS-15	Z294	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
295	046	46-2-205-FH-16	Z295	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
296	046	46-2-205-FH-17	Z296	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
297	046	46-2-205-FH-26	Z297	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
298	046	46-2-205-SB-P-1	Z298	enclosed spraybooth; water clean	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
299	046	46-2-205-SS-16	Z299	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
300	046	46-2-205-SS-17	Z300	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
301	046	46-2-208-SS-18	Z301	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
302	046	46-2-210-FH-24	Z302	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
303	046	46-2-210-SS-24	Z303	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
304	046	46-2-211-FH-23	Z304	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
305	046	46-2-211-SS-23	Z305	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
306	046	46-2-212-FH-22	Z306	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
307	046	46-2-212-SS-22	Z307	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
308	046	46-2-213-FH-21	Z308	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
309	046	46-2-213-SS-21	Z309	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
310	046	46-2-214-FH-19A	Z310	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
311	046	46-2-214-FH-20	Z311	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
312	046	46-2-214-SS-20	Z312	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
313	046	46-2-215-FH-19	Z313	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
314	046	46-2-215-SS-19	Z314	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
315	046	46-3-317-FH-23	Z315	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
316	046	46-3-317-FH-24	Z316	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
317	046	46-3-317-FH-25	Z317	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
318	046	46-3-317-FH-25A	Z318	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
319	046	46-3-317-FH-25B	Z319	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
320	046	46-3-319-FH-19	Z320	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
321	046	46-3-319-FH-20	Z321	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
322	046	46-3-319-FH-21	Z322	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
323	046	46-3-319-FH-22	Z323	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
324	046A	46A-0-B08-FH-01	Z324	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
325	046A	46A-1-101-FH-11	Z325	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
326	046A	46A-1-102-FH-10	Z326	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
327	046A	46A-1-103-FH-09	Z327	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
328	046A	46A-1-105-FH-07	Z328	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
329	046A	46A-1-105-FH-08	Z329	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
330	046A	46A-1-107-FH-05	Z330	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
331	046A	46A-1-107-FH-06	Z331	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
332	046A	46A-1-108-FH-04	Z332	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
333	046A	4 6 A - 1 - 118A-SS-03	Z333	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
334	046A	4 6 A - 1 - 118A-SS-04	Z334	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
335	046A	4 6 A - 1 - 118A-SS-05	Z335	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
336	046A	4 6 A - 1 - 118B-SS-06	Z336	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
337	046A	4 6 A - 1 - 118B-SS-07	Z337	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
338	046A	4 6 A - 1 - 118C-SS-08	Z338	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
339	046A	4 6 A - 2 - 216A-FH-11	Z339	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
340	046A	4 6 A - 2 - 216A-FH-12	Z340	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
341	046A	4 6 A - 2 - 216A-SS-11	Z341	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
342	046A	4 6 A - 2 - 216A-SS-12	Z342	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
343	046A	4 6 A - 2 - 216B-FH-13	Z343	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
344	046A	4 6 A - 2 - 216B-FH-14	Z344	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
345	046A	4 6 A - 2 - 216B-FH-15	Z345	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
346	046A	4 6 A - 2 - 216B-SS-13	Z346	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
347	046A	4 6 A - 2 - 216B-SS-14	Z347	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
348	046A	4 6 A - 2 - 216B-SS-15	Z348	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
349	046A	4 6 A - 2 - 216C-FH-16	Z349	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
350	046A	4 6 A - 2 - 216C-FH-17	Z350	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
351	046A	4 6 A - 2 - 216C-FH-18	Z351	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
352	046A	4 6 A - 2 - 216C-SS-16	Z352	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
353	046A	4 6 A - 2 - 216C-SS-17	Z353	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
354	046A	46A-2-217-FH-10	Z354	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
355	046A	46A-2-218-FH-09	Z355	lab fume hood	OAC 3745-31-03(A)(1)(i)	OAC 3745-77-01(U)(1)
356	046A	46A-3-317-SS-23	Z356	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
357	046A	46A-3-317-SS-24	Z357	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
358	046A	46A-3-317-SS-25	Z358	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
359	046A	46A-3-319-SS-19	Z359	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
360	046A	46A-3-319-SS-20	Z360	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
361	046A	46A-3-319-SS-21	Z361	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
362	046A	46A-3-319-SS-22	Z362	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
363	047	47-SS-1	Z363	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
364	047	47-T-5	Z364	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
365	050	50-B-1	Z365	boiler - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
366	050	50-P-1	Z366	fire water pump - less than 10MMBtu/hr, operated less than 500hours/yr	OAC 3745-31-03(A)(1)(a) & OAC 3745-31-03(nn)	OAC 3745-77-01(U)(1)
367	050	50-T-1	Z367	storage tank - less than 700-gallons	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
368	050	50-T-2	Z368	storage tank - less than 700-gallons	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
369	100	100-DM-1	Z369	dispense machine	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
370	100	100-LB-1	Z370	lab bench	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
371	100	100-SS-1	Z371	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
372	200	200-H-1	Z372	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
373	200	200-H-2	Z373	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
374	200	200-H-3	Z374	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
375	200	200-H-4	Z375	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
376	200	200-H-5	Z376	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
377	200	200-H-6	Z377	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
378	200	200-H-7	Z378	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
379	200	200-H-8	Z379	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
380	200	200-H-9	Z380	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
381	205	205-H-1	Z381	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
382	205	205-H-2	Z382	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
383	300	300-H-1	Z383	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
384	300	300-H-2	Z384	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
385	300	300-H-3	Z385	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
386	300	300-H-4	Z386	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
387	300	300-H-5	Z387	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
388	300	300-H-6	Z388	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
389	300	300-H-7	Z389	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
390	300	300-H-8	Z390	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
391	300	300-H-9	Z391	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
392	300	300-SS-1	Z392	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
393	300	300-SS-2	Z393	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
394	500	500-H-1	Z394	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
395	500	500-H-2	Z395	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
396	600	600-B-1	Z396	boiler - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
397	600	600-H-01	Z397	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
398	600	600-H-02	Z398	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
399	600	600-H-03	Z399	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
400	600	600-H-04	Z400	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
401	600	600-H-05	Z401	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
402	600	600-H-06	Z402	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
403	600	600-H-07	Z403	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
404	600	600-H-08	Z404	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
405	600	600-H-09	Z405	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
406	600	600-H-10	Z406	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
407	600	600-H-11	Z407	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
408	600	600-H-12	Z408	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
409	600	600-H-13	Z409	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
410	600	600-H-14	Z410	heater - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
411	600	600-LA-1	Z411	liquid preassembly	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
412	600	600-P-1	Z412	fire water pump - less than 10MMBtu/hr, less than 500 hours	OAC 3745-31-03(A)(1)(a) & OAC 3745-31-03(nn)	OAC 3745-77-01(U)(1)
413	600	600-PA-1	Z413	pigment preassembly	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
414	600	600-SS-1	Z414	solvent sink (cold cleaner)	OAC 3745-31-03(A)(1)(w) OAC 3745-21-09(O)	OAC 3745-77-01(U)(1)
415	600	600-T-1	Z415	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
416	Backup	BACK-B-1	Z416	generator backup - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
417	Fuel Oil	F U E L - T - 003	Z417	storage tank - less than 700 gallons	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
418	Fuel Oil	F U E L - T - 319	Z418	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
419	Fuel Oil	F U E L - T - 320	Z419	storage tank	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
420	PFV	F l a n g e s 100% VOC	Z420	external flanges	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
421	PFV	F l a n g e s 47% VOC	Z421	external flanges	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
422	PFV	P u m p s 100% VOC	Z422	external pumps	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
423	PFV	Pumps 47% VOC	Z423	external pumps	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
424	PFV	Valves 100% VOC	Z424	external valves	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
425	PFV	Valves 47% VOC	Z425	external valves	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
426	Snow Melter	SNOW-B-1	Z426	snow melter	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
427	Snow Melter	SNOW-T-1	Z427	storage tank	OAC 3745-31-03(A)(1)(l)(iii)	OAC 3745-77-01(U)(1)
428	Training Trailer	TT-H-1	Z428	boiler - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
429	Training Trailer	TT-H-2	Z429	boiler - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
430		Paint Manufacturing Operations	Z430	635 light service valves	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
431		Paint Manufacturing Operations	Z431	840 light liquid service flanges (connectors)	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
432		Paint Manufacturing Operations	Z432	120 light liquid service pump seals	OAC 3745-15-05(B)	OAC 3745-77-01(U)(1)
433	18	18-B-4	Z433	boiler - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)

Facility Name: PPG Industries Inc

Facility ID: 1318000101

#	Building or Location	Equipment Identification	Ohio EPA ID	Equipment Description	Basis for PTI Exemption/ Applicable Requirements	Insignificant (for Title V) per OAC 3745-77-01 (U)(1), (U)(2), or (U)(3)
434	18	18-B-5	Z434	boiler - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
435	18	18-B-6	Z435	boiler - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
436	18	18-B-7	Z436	boiler - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
437	18	18-B-8	Z437	boiler - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
438	18	18-B-9	Z438	boiler - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)
439	18	18-B-10	Z439	boiler - less than 10MMBtu/hr	OAC 3745-31-03(A)(1)(a)	OAC 3745-77-01(U)(1)