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

12/15/03

CERTIFIED MAIL

RE: Preliminary Proposed Title V
Chapter 3745-77 permit (TVP003)

04-48-01-0414
DaimlerChrysler Corp
Roger L. Brown
4400 Chrysler Drive
Toledo, OH 43608-4000

Dear Roger L. Brown:

Enclosed is the Ohio EPA Preliminary Proposed Title V permit that was issued in draft form on 06/12/03. 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

Toledo Div of Environmental Services
348 South Erie Street
Toledo, OH 43602-1633
(419) 936-3015

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

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

cc: Toledo Div of Environmental Services
File, DAPC PMU

State of Ohio Environmental Protection Agency

PRELIMINARY PROPOSED TITLE V PERMIT

Issue Date: 12/15/03	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: 04-48-01-0414 to:

DaimlerChrysler Corp
4400 Chrysler Drive
Toledo, OH 43608-4000

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

B008 (Hot water generator #1)
32.66 MMBtu/hour natural gas, TNAP

B009 (Hot water generator #2)
32.66 MMBtu/hour natural gas, TNAP

B010 (Hot water generator #3)
32.66 MMBtu/hour natural gas, TNAP

B011 (ASH 1-2)
12.02 MMBtu/hour natural gas air make-up unit, TNAP

B012 (ASH 1-3)
12.02 MMBtu/hour natural gas air make-up unit, TNAP

B013 (ASH 1-4)
15.03 MMBtu/hour natural gas air make-up unit, TNAP

B014 (ASH 2-3)
12.02 MMBtu/hour natural gas air make-up unit, TNAP

B015 (ASH 2-4)
15.03 MMBtu/hour natural gas air make-up unit, TNAP

B016 (ASH 1-5)
12.02 MMBtu/hour natural gas air make-up unit, TNAP

B017 (ASH 2-5)
12.02 MMBtu/hour natural gas air make-up unit, TNAP

B018 (ASH 1-6)
13.53 MMBtu/hour natural gas air make-up unit, TNAP

B019 (ASH 2-2)
12.02 MMBtu/hour natural gas air make-up unit, TNAP

B020 (ASH 1-8)
10.52 MMBtu/hour natural gas air make-up unit, TNAP

B021 (ASH 2-6)
13.53 MMBtu/hour natural gas air make-up unit, TNAP

B022 (ASH 2-8)
10.52 MMBtu/hour natural gas air make-up unit, TNAP

B023 (ASH 1-10)
15.03 MMBtu/hour natural gas air make-up unit, TNAP

B024 (ASH 2-10)
15.03 MMBtu/hour natural gas air make-up unit, TNAP

B025 (ASH A)
15.03 MMBtu/hour natural gas air make-up unit, TNAP

B026 (ASH B)
13.53 MMBtu/hour natural gas air make-up unit, TNAP

B027 (ASH C)
13.53 MMBtu/hour natural gas air make-up unit, TNAP

F001 (Plant Roadways and Parking Lots)
Plant-wide roadways and parking areas fugitive dust emissions, includes TNAP and Stickney plant

G002 (Gasoline Dispensing)
Gasoline dispensing operations with Stage II vapor control or ORVR control and gasoline UST with Stage I control, Stickney

G003 (Gasoline Fill Stations)
Gasoline dispensing operations with Stage II vapor control or ORVR control and gasoline AST with Stage I control, TNAP

K008 (Clean Shop Unit #1)
Clean Shop Booth #1, Stickney

K009 (Clean Shop Unit #2)
Clean Shop Booth #2, Stickney

K010 (Clean Shop Unit #3)
Clean Shop Booth #3, Stickney

K016 (Sound Deadener Booth)
Sound deadener applications (waterborne coatings), Stickney

K018 (Paint Repair Spoven #1)
Spoven #1, Stickney

K019 (Paint Repair Spoven #2)
Spoven #2, Stickney

K021 (E-Coat)
Electrocoat dip tank and ovens, TNAP

K022 (Powder Anti-chip)
Powder Anti-chip booth and oven, TNAP

K023 (Topcoat)
Topcoat line 1 and 2 booths and ovens, TNAP

K024 (Low bake repair with Spovens)
Off line low bake repair with Spoven 1 and 2, TNAP

K027 (Blackout)
Blackout booth, TNAP

K029 (Interior touch-up)
Interior paint repair booth, TNAP

P002 (Window Installation)
Window cleaner and primer applications, Stickney

P003 (Sealer & Adhesive Application)
Sealer and adhesive applications, Stickney

P004 (Misc. Solvents and Cleaners Application)
Plant wide miscellaneous solvent and cleaner applications, Stickney

P007 (Non-Production maint.material spraybth cleaning & purge)
Non-production maintenance materials, spray booth cleaning and purge applications, TNAP

P008 (Sealers and Adhesives)
Sealer and Adhesive Applications, TNAP

P009 (Misc. Solvents and Cleaners Application)
Non-photochemically reactive miscellaneous solvent and cleaner, applications, TNAP

P010 (Plant-Wide Misc. Solvents and Cleaners Application)
Plant wide photochemically reactive miscellaneous solvent and cleaner applications, TNAP

P011 (BIW Inspection and Grinding)
Body in White (BIW) inspection and grinding process,TNAP

P012 (Finish welding)
Bodyshop welding operations, TNAP

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:

Toledo Div of Environmental Services
348 South Erie Street
Toledo, OH 43602-1633
(419) 936-3015

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 - Specific Facility Terms and Conditions

A. State and Federally Enforceable Section

1. The emissions of CO, NOx, PM 10, SO2, and VOC from the Toledo North Assembly Plant (TNAP) facility shall not exceed 67.26, 231.93, 33, 17.75, and 1806.43 tons per year, respectively, as a rolling, 12-month total as established by PTI 04-01102.

2. The permittee shall maintain monthly records for the TNAP facility of the following information:

a. usage of each VOC containing material such as paints, solvents, sealers and adhesives;

b. VOC content and solids content (as appropriate) of these materials;

c. natural gas and fuel oil usage;

d. the most recent complete and approved testing results of pollution control systems and related factors used in determining emissions; and

e. documentation for determination of emissions of monthly VOC emissions and conformance with VOC BAT limits to demonstrate compliance with these emission limitations.

3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month emission limitations for CO, NOx, PM10, SO2, and/or VOC for the TNAP facility.

4. The permittee shall also submit annual reports that specify the TNAP facility wide emissions of CO, NOx, PM10, SO2, and VOC for the previous calendar year. These reports shall be submitted by April 15 of each year.

5. Compliance with the rolling, 12-month emission limitations for CO, NOx, PM10, SO2, and/or VOC at the TNAP facility shall be demonstrated by calculations from the related record keeping requirements of Part III - Terms and Conditions for emissions units.

6. The permittee shall maintain compliance with the applicable requirements of 40 CFR Part 63, Subpart PPPP - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products as specified below.

Subpart PPPP--National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products

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Subpart PPPP--National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products

What this Subpart Covers

§63.4480 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for plastic parts and products surface coating facilities. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations.

§63.4481 Am I subject to this subpart?

(a) Plastic parts and products include, but are not limited to, plastic components of the following types of products as well as the products themselves: motor vehicle parts and accessories for automobiles, trucks, recreational vehicles; sporting and recreational goods; toys; business machines; laboratory and medical equipment; and household and other consumer products. Except as provided in paragraph (c) of this section, the source category to which this subpart applies is the surface coating of any plastic parts or products, as described in paragraph (a)(1) of this section, and it includes the subcategories listed in paragraphs (a)(2) through (5) of this section.

(1) Surface coating is the application of coating to a substrate using, for example, spray guns or dip tanks. When application of coating to a substrate occurs, then surface coating also includes associated activities, such as surface preparation, cleaning, mixing, and storage. However, these activities do not comprise surface coating if they are not directly related to the application of the coating. Coating application with handheld, non-refillable aerosol containers, touch-up markers, marking pens, or the application of paper film or plastic film which may be pre-coated with an adhesive by the manufacturer are not coating operations for the purposes of this subpart.

(2) The general use coating subcategory includes all surface coating operations that are not automotive lamp coating operations, thermoplastic olefin (TPO) coating operations, or assembled on-road vehicle coating operations.

(3) The automotive lamp coating subcategory includes the surface coating of plastic components of the body of an exterior automotive lamp including, but not limited to, headlamps, tail lamps, turn signals, and marker (clearance) lamps; typical coatings used are reflective argent coatings and clear topcoats. This subcategory does not include the coating of interior automotive lamps, such as dome lamps and instrument panel lamps.

(4) The TPO coating subcategory includes the surface coating of TPO substrates; typical coatings used are adhesion promoters, color coatings, clear coatings and topcoats. The coating of TPO substrates on fully assembled on-road vehicles is not included in the TPO coating subcategory.

(5) The assembled on-road vehicle coating subcategory includes surface coating of fully assembled motor vehicles and trailers intended for on-road use, including, but not limited to: automobiles, light-duty trucks, heavy duty trucks, and busses that have been repaired after a collision or otherwise repainted; fleet delivery trucks; and motor homes and other recreational vehicles (including camping trailers and fifth wheels). This subcategory also includes the incidental coating of parts, such as radiator grilles, that are removed from the fully assembled on-road vehicle to facilitate concurrent coating of all parts associated with the vehicle. The assembled on-road vehicle coating subcategory does not include the surface coating of plastic parts prior to their attachment to an on-road vehicle on an original equipment manufacturer’s (OEM) assembly line. The assembled on-road vehicle coating subcategory also does not include the use of adhesives, sealants, and caulks used in assembling on-road vehicles. Body fillers used to correct small surface defects and rubbing compounds used to remove surface scratches are not considered coatings subject to this subpart.

(b) You are subject to this subpart if you own or operate a new, reconstructed, or existing affected source, as defined in §63.4482, that uses 378 liters (100 gallons (gal)) per year, or more, of coatings that contain hazardous air pollutants (HAP) in the surface coating of plastic parts and products defined in paragraph (a) of this section; and that is a major source, is located at a major source, or is part of a major source of emissions of HAP. A major source of HAP emissions is any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit any single HAP at a rate of 9.07 megagrams (Mg) (10 tons) or more per year or any combination of HAP at a rate of 22.68 Mg (25 tons) or more per year. You do not need to include coatings that meet the definition of non-HAP coating contained in §63.4581 in determining whether you use 378 liters (100 gallons) per year, or more, of coatings in the surface coating of plastic parts and products.

(c) This subpart does not apply to surface coating or a coating operation that meets any of the criteria of paragraphs (c)(1) through (16) of this section.

(1) A coating operation conducted at a facility where the facility uses only coatings, thinners and other additives, and cleaning materials that contain no organic HAP, as determined according to §63.3941(a).

(2) Surface coating operations that occur at research or laboratory facilities, or is part of janitorial, building, and facility maintenance operations, or that occur at hobby shops that are operated for noncommercial purposes.

(3) The surface coating of plastic parts and products performed on-site at installations owned or operated by the Armed Forces of the United States (including the Coast Guard and the National Guard of any such State) or the National Aeronautics and Space Administration, or the surface coating of military munitions manufactured by or for the Armed Forces of the United States (including the Coast Guard and the National Guard of any such State).

(4) Surface coating where plastic is extruded onto plastic parts or products to form a coating.

(5) Surface coating of magnet wire.

(6) In-mold coating operations or gel coating operations in the manufacture of reinforced plastic composite parts that meet the applicability criteria for reinforced plastics composites production (subpart WWWW of this part).

(7) Surface coating of plastic components of wood furniture that meet the applicability criteria for wood furniture manufacturing (subpart JJ of this part).

(8) Surface coating of plastic components of large appliances that meet the applicability criteria for large appliance surface coating (subpart NNNN of this part).

(9) Surface coating of plastic components of metal furniture that meet the applicability criteria for metal furniture surface coating (subpart RRRR of this part).

(10) Surface coating of plastic components of wood building products that meet the applicability criteria for wood building products surface coating (subpart QQQQ of this part).

(11) Surface coating of plastic components of aerospace vehicles that meet the applicability criteria for aerospace manufacturing and rework (40 CFR part 63, subpart GG).

(12) Surface coating of plastic parts intended for use in an aerospace vehicle or component using specialty coatings as defined in appendix A to subpart GG of this part.

(13) Surface coating of plastic components of ships that meet the applicability criteria for shipbuilding and ship repair (subpart II of this part).

(14) Surface coating of plastic using a web coating process that meets the applicability criteria for paper and other web coating (subpart JJJJ of this part).

(15) Surface coating of fiberglass boats or parts of fiberglass boats (including, but not limited to, the use of assembly adhesives) where the facility meets the applicability criteria for boat manufacturing (subpart VVVV of this part), except where the surface coating of the boat is a post-mold coating operation performed on personal watercraft or parts of personal watercraft. This subpart does apply to post-mold coating operations performed on personal watercraft and parts of personal watercraft.

(16) Surface coating of plastic components of automobiles and light-duty trucks that meet the applicability criteria for the Automobiles and Light-Duty Trucks Surface Coating NESHAP (40 CFR part 63, subpart IIII)[1].

(d) If you perform surface coating of plastic parts or products that meet the applicability criteria for both the Automobiles and Light-Duty Trucks NESHAP (40 CFR part 63, subpart IIII)[2] and these NESHAP, then you may comply with the requirements of the Automobiles and Light-Duty Trucks NESHAP for the surface coating of all your plastic parts used in automobile or light-duty truck manufacturing in lieu of complying with each subpart separately. Surface coating operations on plastic parts or products not intended for use
in automobiles or light-duty trucks (for example, parts for motorcycles or lawn mowers) cannot be made part of your affected source under subpart IIII of this part.

(e) If you own or operate an affected source that meets the applicability criteria of this subpart and at the same facility you also perform surface coating that meets the applicability criteria of any other surface coating NESHAP in this part, except for plastic parts surface coating that meets the applicability criteria of the Automobiles and Light-Duty Trucks NESHAP (subpart IIII of this part), you may choose to comply as specified in paragraph (e)(1), (2), or (3) of this section.

(1) You may have each surface coating operation that meets the applicability criteria of a separate NESHAP comply with that NESHAP separately.

(2) You may comply with the emission limitation representing the predominant surface coating activity at your facility, as determined according to paragraphs (e)(2)(i) and (ii) of this section. However, you may not establish assembled on-road vehicle and automotive lamp coating operations as the predominant activity.

(i) If a surface coating operation accounts for 90 percent or more of the surface coating activity at your facility (that is, the predominant activity), then compliance with the emission limitations of the predominant activity for all surface coating operations constitutes compliance with these and other applicable surface coating NESHAP. In determining predominant activity, you must include coating activities that meet the applicability criteria of other surface coating NESHAP and constitute more than 1 percent of total coating activities at your facility. Coating activities that meet the applicability criteria of other surface coating NESHAP but comprise less than 1 percent of coating activities need not be included in the determination of predominant activity but must be included in the compliance calculation.

(ii) You must use kilogram (kg) (pound (lb)) of solids used as a measure of relative surface coating activity over a representative period of operation. You may estimate the relative mass of coating solids used from parameters other than coating consumption and mass solids content

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[1] Under development.

[2] Under Development.

(e.g., design specifications for the parts or products coated and the number of items produced). The determination of predominant activity must accurately reflect current and projected coating operations and must be verifiable through appropriate documentation. The use of parameters other than coating consumption and mass solids content must be approved by the Administrator. You may use data for any reasonable time period of at least 1 year in determining the relative amount of coating activity, as long as they represent the way the source will continue to operate in the future and are approved by the Administrator. You must determine the predominant activity at your facility and submit the results of that determination with the initial notification required by §63.4510(b). You must also determine predominant activity annually and include the determination in the next semi-annual compliance report required by §63.4520(a).

(3) You may comply with a facility-specific emission limit calculated from the relative amount of coating activity that is subject to each emission limit. If you elect to comply using the facility-specific emission limit alternative, then compliance with the facility-specific emission limit and the emission limitations in this subpart for all surface coating operations constitutes compliance with this and other applicable surface coating NESHAP. The procedures for calculating the facility-specific emission limit are specified in §63.4490. In calculating a facility-specific emission limit, you must include coating activities that meet the applicability criteria of other surface coating NESHAP and constitute more than 1 percent of total coating activities at your facility. Coating activities that meet the applicability criteria of other surface coating NESHAP but comprise less than 1 percent of total coating activities need not be included in the calculation of the facility-specific emission limit but must be included in the compliance calculations.

<u>§63.4482 What parts of my plant does this subpart cover</u>?

(a) This subpart applies to each new, reconstructed, and existing affected source within each of the four subcategories listed in §63.4481(a).

(b) The affected source is the collection of all of the items listed in paragraphs (b)(1) through (4) of this section that are used for surface coating of plastic parts and products within each subcategory.

(1) All coating operations as defined in §63.4581;

(2) All storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed;

(3) All manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials; and

(4) All storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation.

(c) An affected source is a new source if it meets the criteria in paragraph (c)(1) of this section and the criteria in either paragraph (c)(2) or (3) of this section.

(1) You commenced the construction of the source after December 4, 2002 by installing new coating equipment.

(2) The new coating equipment is used to coat plastic parts and products at a source where no plastic parts surface coating was previously performed.

(3) The new coating equipment is used to perform plastic parts and products coating in a subcategory that was not previously performed.

(d) An affected source is reconstructed if you meet the criteria as defined in §63.2.

(e) An affected source is existing if it is not new or reconstructed.

§63.4483 When do I have to comply with this subpart?

The date by which you must comply with this subpart is called the compliance date. The compliance date for each type of affected source is specified in paragraphs (a) through (c) of this section. The compliance date begins the initial compliance period during which you conduct the initial compliance demonstration described in §§63.4540, 63.4550, and 63.4560.

(a) For a new or reconstructed affected source, the compliance date is the applicable date in paragraph (a)(1) or (2) of this section:

(1) If the initial startup of your new or reconstructed affected source is before [DATE OF PUBLICATION OF THIS FINAL RULE IN THE FEDERAL REGISTER], the compliance date is [DATE OF PUBLICATION OF THIS FINAL RULE IN THE FEDERAL REGISTER].

(2) If the initial startup of your new or reconstructed affected source occurs after [DATE OF PUBLICATION OF THIS FINAL RULE IN THE FEDERAL REGISTER], the compliance date is the date of initial startup of your affected source.

(b) For an existing affected source, the compliance date is the date 3 years after [DATE OF PUBLICATION OF THIS FINAL RULE IN THE FEDERAL REGISTER].

(c) For an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP emissions, the compliance date is specified in paragraphs (c)(1) and (2) of this section.

(1) For any portion of the source that becomes a new or reconstructed affected source subject to this subpart, the compliance date is the date of initial startup of the affected source or [DATE OF PUBLICATION OF THIS FINAL RULE IN THE FEDERAL REGISTER], whichever is later.

(2) For any portion of the source that becomes an existing affected source subject to this subpart, the compliance date is the date 1 year after the area source becomes a major source or 3 years after [DATE OF PUBLICATION OF THIS FINAL RULE IN THE FEDERAL REGISTER], whichever is later.

(d) You must meet the notification requirements in §63.4510 according to the dates specified in that section and in subpart A of this part. Some of the notifications must be submitted before the compliance dates described in paragraphs (a) through (c) of this section.

Emission Limitations

§63.4490 What emission limits must I meet?

(a) For a new or reconstructed affected source, you must limit organic HAP emissions to the atmosphere from the affected source to the applicable limit specified in paragraphs (a)(1) through (4) of this

section, except as specified in paragraph (c) of this section, determined according to the requirements in §63.4541, §63.4551, or §63.4561.

(1) For each new general use coating affected source, limit organic HAP emissions to no more than 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used during each 12-month compliance period.

(2) For each new automotive lamp coating affected source, limit organic HAP emissions to no more than 0.26 kg (0.26 lb) organic HAP emitted per kg (lb) coating solids used during each 12-month compliance period.

(3) For each new TPO coating affected source, limit organic HAP emissions to no more than 0.22 kg (0.22 lb) organic HAP emitted per kg (lb) coating solids used during each 12-month compliance period.

(4) For each new assembled on-road vehicle coating affected source, limit organic HAP emissions to no more than 1.34 kg (1.34 lb) organic HAP emitted per kg (lb) coating solids used during each 12-month compliance period.

(b) For an existing affected source, you must limit organic HAP emissions to the atmosphere from the affected source to the applicable limit specified in paragraphs (b)(1) through (4) of this section, except as specified in paragraph (c) of this section, determined according to the requirements in §63.4541, §63.4551, or §63.4561.

(1) For each existing general use coating affected source, limit organic HAP emissions to no more than 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used during each 12-month compliance period.

(2) For each existing automotive lamp coating affected source, limit organic HAP emissions to no more than 0.45 kg (0.45 lb) organic HAP emitted per kg (lb) coating solids used during each 12-month compliance period.

(3) For each existing TPO coating affected source, limit organic HAP emissions to no more than 0.26 kg (0.26 lb) organic HAP emitted per kg (lb) coating solids used during each 12-month compliance period.

(4) For each existing assembled on-road vehicle coating affected source, limit organic HAP emissions to no more than 1.34 kg (1.34 lb) organic HAP emitted per kg (lb) coating solids used during each 12-month compliance period.

(c) If your facility’s surface coating operations meet the applicability criteria of more than one of the subcategory emission limits specified in paragraphs (a) or (b) of this section, you may comply separately with each subcategory emission limit or comply using one of the alternatives in paragraph (c)(1) or (2) of this section.

(1) If the general use or TPO surface coating operations subject to only one of the emission limits specified in paragraphs (a)(1), (3), (b)(1), or (3) of this section account for 90 percent or more of the surface coating activity at your facility (i.e., it is the predominant activity at your facility), then compliance with that emission limitation for all surface coating operations constitutes compliance with the other applicable emission limitations. You must use kg (lb) of solids used as a measure of relative surface coating activity over a representative period of operation. You may estimate the relative mass of coating solids used from parameters other than coating consumption and mass solids content (e.g., design specifications for the parts or products coated and the number of items produced). The determination of predominant activity must

accurately reflect current and projected coating operations and must be verifiable through appropriate documentation. The use of parameters other than coating consumption and mass solids content must be approved by the Administrator. You may use data for any reasonable time period of at least 1 year in determining the relative amount of coating activity, as long as they represent the way the source will continue to operate in the future and are approved by the Administrator. You must determine the predominant activity at your facility and submit the results of that determination with the initial notification required by §63.4510(b). Additionally, you must determine the facility's predominant activity annually and include the determination in the next semi-annual compliance report required by §63.4520(a).

(2) You may calculate and comply with a facility-specific emission limit as described in paragraphs (c)(2)(i) through (iii) of this section. If you elect to comply using the facility-specific emission limit alternative, then compliance with the facility-specific emission limit and the emission limitations in this subpart for all surface coating operations constitutes compliance with this and other applicable surface coating NESHAP. In calculating a facility-specific emission limit, you must include coating activities that meet the applicability criteria of the other subcategories and constitute more than 1 percent of total coating activities. Coating activities that meet the applicability criteria of other surface coating NESHAP but comprise less than 1 percent of coating activities need not be included in the determination of predominant activity but must be included in the compliance calculation.

(i) You are required to calculate the facility-specific emission limit for your facility when you submit the notification of compliance status required in §63.4510(c), and on a monthly basis afterward using the coating data for the relevant 12-month compliance period.

(ii) Use Equation 1 of this section to calculate the facility-specific emission limit for your surface coating operations for each 12-month compliance period.

$$\text{Facility-Specific Emission Limit} = \frac{\sum_{i=1}^{n} (\text{Limit}_i)(\text{Solids}_i)}{\sum_{i=1}^{n} (\text{Solids}_i)} \qquad \textbf{(Eq. 1)}$$

Where:

Facility-specific emission limit	=	Facility-specific emission limit for each 12-month compliance period, kg (lb) organic HAP per kg (lb) coating solids used.
Limit_i	=	The new source or existing source emission limit applicable to coating operation, i, included in the facility-specific emission limit, converted to kg (lb) organic HAP per kg (lb) coating solids used, if the emission limit is not already in those units. All emission limits included in the facility-specific emission limit must be in the same units.

$Solids_i$	=	The kg (lb) of solids used in coating operation, i, in the 12-month compliance period that is subject to emission limit, i. You may estimate the mass of coating solids used from parameters other than coating consumption and mass solids content (e.g., design specifications for the parts or products coated and the number of items produced). The use of parameters other than coating consumption and mass solids content must be approved by the Administrator.
n	=	The number of different coating operations included in the facility-specific emission limit.

(iii) If you need to convert an emission limit in another surface coating NESHAP from kg (lb) organic HAP per liter (gallon) coating solids used to kg (lb) organic HAP per kg (lb) coating solids used, you must use the default solids density of 1.50 kg solids per liter coating solids (12.5 lb solids per gal solids).

§63.4491 What are my options for meeting the emission limits?

You must include all coatings (as defined in §63.4581), thinners and/or other additives, and cleaning materials used in the affected source when determining whether the organic HAP emission rate is equal to or less than the applicable emission limit in §63.4490. To make this determination, you must use at least one of the three compliance options listed in paragraphs (a) through (c) of this section. You may apply any of the compliance options to an individual coating operation, or to multiple coating operations as a group, or to the entire affected source. You may use different compliance options for different coating operations, or at different times on the same coating operation. You may employ different compliance options when different coatings are applied to the same part, or when the same coating is applied to different parts. However, you may not use different compliance options at the same time on the same coating operation. If you switch between compliance options for any coating operation or group of coating operations, you must document this switch as required by §63.4530(c), and you must report it in the next semiannual compliance report required in §63.4520.

(a) Compliant material option. Demonstrate that the organic HAP content of each coating used in the coating operation(s) is less than or equal to the applicable emission limit in §63.4490, and that each thinner and/or other additive, and cleaning material used contains no organic HAP. You must meet all the requirements of §§63.4540, 63.4541, and 63.4542 to demonstrate compliance with the applicable emission limit using this option.

(b) Emission rate without add-on controls option. Demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in the coating operation(s), the organic HAP emission rate for the coating operation(s) is less than or equal to the applicable emission limit in §63.4490, calculated as a rolling 12-month emission rate and determined on a monthly basis. You must meet all the requirements of

§§63.4550, 63.4551, and 63.4552 to demonstrate compliance with the emission limit using this option.

(c) Emission rate with add-on controls option. Demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in the coating operation(s), and the emissions reductions achieved by emission capture systems and add-on controls, the organic HAP emission rate for the coating operation(s) is less than or equal to the applicable emission limit in §63.4490, calculated as a rolling 12-month emission rate and determined on a monthly basis. If you use this compliance option, you must also demonstrate that all emission capture systems and add-on control devices for the coating operation(s) meet the operating limits required in §63.4492, except for solvent recovery systems for which you conduct liquid-liquid material balances according to §63.4561(j), and that you meet the work practice standards required in §63.4493. You must meet all the requirements of §§63.4560 through 63.4568 to demonstrate compliance with the emission limits, operating limits, and work practice standards using this option.

§63.4492 What operating limits must I meet?

(a) For any coating operation(s) on which you use the compliant material option or the emission rate without add-on controls option, you are not required to meet any operating limits.

(b) For any controlled coating operation(s) on which you use the emission rate with add-on controls option, except those for which you use a solvent recovery system and conduct a liquid-liquid material balance according to §63.4561(j), you must meet the operating limits specified in Table 1 to this subpart. These operating limits apply to the emission capture and control systems on the coating operation(s) for which you use this option, and you must establish the operating limits during the performance test according to the requirements in §63.4567. You must meet the operating limits at all times after you establish them.

(c) If you use an add-on control device other than those listed in Table 1 to this subpart, or wish to monitor an alternative parameter and comply with a different operating limit, you must apply to the Administrator for approval of alternative monitoring under §63.8(f).

§63.4493 What work practice standards must I meet?

(a) For any coating operation(s) on which you use the compliant material option or the emission rate without add-on controls option, you are not required to meet any work practice standards.

(b) If you use the emission rate with add-on controls option, you must develop and implement a work practice plan to minimize organic HAP emissions from the storage, mixing, and conveying of coatings, thinners and/or other additives, and cleaning materials used in, and waste materials generated by the controlled coating operation(s) for which you use this option; or you must meet an alternative standard as provided in paragraph (c) of this section. The plan must specify practices and procedures to ensure that, at a minimum, the elements specified in paragraphs (b)(1) through (5) of this section are implemented.

(1) All organic-HAP-containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be stored in closed containers.

(2) Spills of organic-HAP-containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be minimized.

(3) Organic-HAP-containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be conveyed from one location to another in closed containers or pipes.

(4) Mixing vessels which contain organic-HAP-containing coatings and other materials must be closed except when adding to, removing, or mixing the contents.

(5) Emissions of organic HAP must be minimized during cleaning of storage, mixing, and conveying equipment.

(c) As provided in §63.6(g), we, the U.S. Environmental Protection Agency, may choose to grant you permission to use an alternative to the work practice standards in this section.

General Compliance Requirements

§63.4500 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations in this subpart as specified in paragraphs (a)(1) and (2) of this section.

(1) Any coating operation(s) for which you use the compliant material option or the emission rate without add-on controls option, as specified in §63.4491(a) and (b), must be in compliance with the applicable emission limit in §63.4490 at all times.

(2) Any coating operation(s) for which you use the emission rate with add-on controls option, as specified in §63.4491(c), must be in compliance with the emission limitations as specified in paragraphs (a)(2)(i) through (iii) of this section.

(i) The coating operation(s) must be in compliance with the applicable emission limit in §63.4490 at all times except during periods of startup, shutdown, and malfunction.

(ii) The coating operation(s) must be in compliance with the operating limits for emission capture systems and add-on control devices required by §63.4492 at all times except during periods of startup, shutdown, and malfunction, and except for solvent recovery systems for which you conduct liquid-liquid material balances according to §63.4561(j).

(iii) The coating operation(s) must be in compliance with the work practice standards in §63.4493 at all times.

(b) You must always operate and maintain your affected source, including all air pollution control and monitoring equipment you use for purposes of complying with this subpart, according to the provisions in §63.6(e)(1)(i).

(c) If your affected source uses an emission capture system and add-on control device, you must develop and implement a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3). The plan must address the startup, shutdown, and corrective actions in the event of a malfunction of the emission capture system or the add-on control device. The plan must also address any coating operation equipment that may cause increased emissions or that would affect capture efficiency if the process equipment malfunctions, such as conveyors that move parts among enclosures.

§63.4501 What parts of the General Provisions apply to me?

Table 2 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

Notifications, Reports, and Records

§63.4510 What notifications must I submit?

(a) General. You must submit the notifications in §§63.7(b) and (c), 63.8(f)(4), and 63.9(b) through (e) and (h) that apply to you by the dates specified in those sections, except as provided in paragraphs (b) and (c) of this section.

(b) Initial notification. You must submit the initial notification required by §63.9(b) for a new or reconstructed affected source no later than 120 days after initial startup or 120 days after [DATE OF PUBLICATION OF THIS FINAL RULE IN THE FEDERAL REGISTER], whichever is later. For an existing affected source, you must submit the initial notification no later than 1 year after [DATE OF PUBLICATION OF THIS FINAL RULE IN THE FEDERAL REGISTER]. If you are using compliance with the Automobiles and Light-Duty Trucks NESHAP (subpart IIII of this part) under §63.4881(d) to constitute compliance with this subpart for your plastic part coating operations, then you must include a statement to this effect in your initial notification and no other notifications are required under this subpart. If you are complying with another NESHAP that constitutes the predominant activity at your facility under §63.4481(e)(2) to constitute compliance with this subpart for your plastic coating operations, then you must include a statement to this effect in your initial notification and no other notifications are required under this subpart.

(c) Notification of compliance status. You must submit the notification of compliance status required by §63.9(h) no later than 30 calendar days following the end of the initial compliance period described in §63.4540, §63.4550, or §63.4560 that applies to your affected source. The notification of compliance status must contain the information specified in paragraphs (c)(1) through (11) of this section and in §63.9(h).

(1) Company name and address.

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

(3) Date of the report and beginning and ending dates of the reporting period. The reporting period is the initial compliance period described in §63.4540, §63.4550, or §63.4560 that applies to your affected source.

(4) Identification of the compliance option or options specified in §63.4491 that you used on each coating operation in the affected source during the initial compliance period.

(5) Statement of whether or not the affected source achieved the emission limitations for the initial compliance period.

(6) If you had a deviation, include the information in paragraphs (c)(6)(i) and (ii) of this section.

(i) A description and statement of the cause of the deviation.

(ii) If you failed to meet the applicable emission limit in §63.4490, include all the calculations you used to determine the kg (lb) organic HAP emitted per kg (lb) coating solids used. You do not need to submit

information provided by the materials' suppliers or manufacturers, or test reports.

(7) For each of the data items listed in paragraphs (c)(7)(i) through (iv) of this section that is required by the compliance option(s) you used to demonstrate compliance with the emission limit, include an example of how you determined the value, including calculations and supporting data. Supporting data may include a copy of the information provided by the supplier or manufacturer of the example coating or material, or a summary of the results of testing conducted according to §63.4541(a), (b), or (c). You do not need to submit copies of any test reports.

(i) Mass fraction of organic HAP for one coating, for one thinner and/or other additive, and for one cleaning material.

(ii) Mass fraction of coating solids for one coating.

(iii) Density for one coating, one thinner and/or other additive, and one cleaning material, except that if you use the compliant material option, only the example coating density is required.

(iv) The amount of waste materials and the mass of organic HAP contained in the waste materials for which you are claiming an allowance in Equation 1 of §63.4551.

(8) The calculation of kg (lb) organic HAP emitted per kg (lb) coating solids used for the compliance option(s) you used, as specified in paragraphs (c)(8)(i) through (iii) of this section.

(i) For the compliant material option, provide an example calculation of the organic HAP content for one coating, using Equation 1 of §63.4541.

(ii) For the emission rate without add-on controls option, provide the calculation of the total mass of organic HAP emissions for each month; the calculation of the total mass of coating solids used each month; and the calculation of the 12-month organic HAP emission rate using Equations 1 and 1A through 1C, 2, and 3, respectively, of §63.4551.

(iii) For the emission rate with add-on controls option, provide the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month, using Equations 1 and 1A through 1C of §63.4551; the calculation of the total mass of coating solids used each month using Equation 2 of §63.4551; the mass of organic HAP emission reduction each month by emission capture systems and add-on control devices using Equations 1 and 1A through 1D of §63.4561 and Equations 2, 3, and 3A through 3C of §63.4561, as applicable; the calculation of the total mass of organic HAP emissions each month using Equation 4 of §63.4561; and the calculation of the 12-month organic HAP emission rate using Equation 5 of §63.4561.

(9) For the emission rate with add-on controls option, you must include the information specified in paragraphs (c)(9)(i) through (iv) of this section, except that the requirements in paragraphs (c)(9)(i) through (iii) of this section do not apply to solvent recovery systems for which you conduct liquid-liquid material balances according to §63.4561(j).

(i) For each emission capture system, a summary of the data and copies of the calculations supporting the determination that the emission capture system is a permanent total enclosure (PTE) or a measurement of the emission capture system efficiency. Include a description of the protocol followed for measuring capture efficiency, summaries of any capture

efficiency tests conducted, and any calculations supporting the capture efficiency determination. If you use the data quality objective (DQO) or lower confidence limit (LCL) approach, you must also include the statistical calculations to show you meet the DQO or LCL criteria in appendix A to subpart KK of this part. You do not need to submit complete test reports.

(ii) A summary of the results of each add-on control device performance test. You do not need to submit complete test reports.

(iii) A list of each emission capture system's and add-on control device's operating limits and a summary of the data used to calculate those limits.

(iv) A statement of whether or not you developed and implemented the work practice plan required by §63.4493.

(10) If you are complying with a single emission limit representing the predominant activity under §63.4490(c)(1), include the calculations and supporting information used to demonstrate that this emission limit represents the predominant activity as specified in §63.4490(c)(1).

(11) If you are complying with a facility-specific emission limit under §63.4490(c)(2), include the calculation of the facility-specific emission limit and any supporting information as specified in §63.4490(c)(2).

<u>§63.4520 What reports must I submit</u>?

(a) <u>Semiannual compliance reports</u>. You must submit semiannual compliance reports for each affected source according to the requirements of paragraphs (a)(1) through (7) of this section. The semiannual compliance reporting requirements may be satisfied by reports required under other parts of the Clean Air Act (CAA), as specified in paragraph (a)(2) of this section.

(1) <u>Dates</u>. Unless the Administrator has approved or agreed to a different schedule for submission of reports under §63.10(a), you must prepare and submit each semiannual compliance report according to the dates specified in paragraphs (a)(1)(i) through (iv) of this section. Note that the information reported for each of the months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.

(i) The first semiannual compliance report must cover the first semiannual reporting period which begins the day after the end of the initial compliance period described in §63.4540, §63.4550, or §63.4560 that applies to your affected source and ends on June 30 or December 31, whichever date is the first date following the end of the initial compliance period.

(ii) Each subsequent semiannual compliance report must cover the subsequent semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(iii) Each semiannual compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(iv) 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 date specified in paragraph (a)(1)(iii) of this section.

(2) Inclusion with title V report. Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 40 CFR part 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a semiannual compliance report pursuant to this section along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the semiannual compliance report includes all required information concerning deviations from any emission limitation in this subpart, its submission will be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a semiannual compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permitting authority.

(3) General requirements. The semiannual compliance report must contain the information specified in paragraphs (a)(3)(i) through (vii) of this section, and the information specified in paragraphs (a)(4) through (7) and (c)(1) of this section that is applicable to your affected source.

(i) Company name and address.

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

(iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 6-month period ending on June 30 or December 31. Note that the information reported for each of the 6 months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.

(iv) Identification of the compliance option or options specified in §63.4491 that you used on each coating operation during the reporting period. If you switched between compliance options during the reporting period, you must report the beginning and ending dates for each option you used.

(v) If you used the emission rate without add-on controls or the emission rate with add-on controls compliance option (§63.4491(b) or (c)), the calculation results for each rolling 12-month organic HAP emission rate during the 6-month reporting period.

(vi) If you used the predominant activity alternative (§63.4490(c)(1)), include the annual determination of predominant activity if it was not included in the previous semi-annual compliance report.

(vii) If you used the facility-specific emission limit alternative (§63.4490(c)(2)), include the calculation of the facility-specific emission limit for each 12-month compliance period during the 6-month reporting period.

(4) No deviations. If there were no deviations from the emission limitations in §§63.4490, 63.4492, and 63.4493 that apply to you, the semiannual compliance report must include a statement that there were no

deviations from the emission limitations during the reporting period. If you used the emission rate with add-on controls option and there were no periods during which the continuous parameter monitoring systems (CPMS) were out-of-control as specified in §63.8(c)(7), the semiannual compliance report must include a statement that there were no periods during which the CPMS were out-of-control during the reporting period.

(5) Deviations: Compliant material option. If you used the compliant material option and there was a deviation from the applicable organic HAP content requirements in §63.4490, the semiannual compliance report must contain the information in paragraphs (a)(5)(i) through (iv) of this section.

(i) Identification of each coating used that deviated from the applicable emission limit, and each thinner and/or other additive, and cleaning material used that contained organic HAP, and the dates and time periods each was used.

(ii) The calculation of the organic HAP content (using Equation 1 of §63.4541) for each coating identified in paragraph (a)(5)(i) of this section. You do not need to submit background data supporting this calculation (e.g., information provided by coating suppliers or manufacturers, or test reports).

(iii) The determination of mass fraction of organic HAP for each thinner and/or other additive, and cleaning material identified in paragraph (a)(5)(i) of this section. You do not need to submit background data supporting this calculation (e.g., information provided by material suppliers or manufacturers, or test reports).

(iv) A statement of the cause of each deviation.

(6) Deviations: Emission rate without add-on controls option. If you used the emission rate without add-on controls option and there was a deviation from the applicable emission limit in §63.4490, the semiannual compliance report must contain the information in paragraphs (a)(6)(i) through (iii) of this section.

(i) The beginning and ending dates of each compliance period during which the 12-month organic HAP emission rate exceeded the applicable emission limit in §63.4490.

(ii) The calculations used to determine the 12-month organic HAP emission rate for the compliance period in which the deviation occurred. You must submit the calculations for Equations 1, 1A through 1C, 2, and 3 of §63.4551; and if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.4551(e)(4). You do not need to submit background data supporting these calculations (e.g., information provided by materials suppliers or manufacturers, or test reports).

(iii) A statement of the cause of each deviation.

(7) Deviations: Emission rate with add-on controls option. If you used the emission rate with add-on controls option and there was a deviation from an emission limitation (including any periods when emissions bypassed the add-on control device and were diverted to the atmosphere), the semiannual compliance report must contain the information in paragraphs (a)(7)(i) through (xiv) of this section. This includes periods of startup, shutdown, and malfunction during which deviations occurred.

(i) The beginning and ending dates of each compliance period during which the 12-month organic HAP emission rate exceeded the applicable emission limit in §63.4490.

(ii) The calculations used to determine the 12-month organic HAP emission rate for each compliance period in which a deviation occurred. You must provide the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1 and 1A through 1C of §63.4551; and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.4551(e)(4); the calculation of the total mass of coating solids used each month using Equation 2 of §63.4551; the calculation of the mass of organic HAP emission reduction each month by emission capture systems and add-on control devices using Equations 1 and 1A through 1D of §63.4561, and Equations 2, 3, and 3A through 3C of §63.4561, as applicable; the calculation of the total mass of organic HAP emissions each month using Equation 4 of §63.4561; and the calculation of the 12-month organic HAP emission rate using Equation 5 of §63.4561. You do not need to submit the background data supporting these calculations (e.g., information provided by materials suppliers or manufacturers, or test reports).

(iii) The date and time that each malfunction started and stopped.

(iv) A brief description of the CPMS.

(v) The date of the latest CPMS certification or audit.

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

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

(viii) The date and time period of each deviation from an operating limit in Table 1 to this subpart; date and time period of any bypass of the add-on control device; and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(ix) A summary of the total duration of each deviation from an operating limit in Table 1 to this subpart and each bypass of the add-on control device during the semiannual reporting period, and the total duration as a percent of the total source operating time during that semiannual reporting period.

(x) A breakdown of the total duration of the deviations from the operating limits in Table 1 of this subpart and bypasses of the add-on control device during the semiannual reporting period into those that were due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(xi) A summary of the total duration of CPMS downtime during the semiannual reporting period and the total duration of CPMS downtime as a percent of the total source operating time during that semiannual reporting period.

(xii) A description of any changes in the CPMS, coating operation, emission capture system, or add-on control device since the last semiannual reporting period.

(xiii) For each deviation from the work practice standards, a description of the deviation, the date and time period of the deviation, and the actions you took to correct the deviation.

(xiv) A statement of the cause of each deviation.

(b) Performance test reports. If you use the emission rate with add-on controls option, you must submit reports of performance test results for emission capture systems and add-on control devices no later than 60 days after completing the tests as specified in §63.10(d)(2).

(c) Startup, shutdown, malfunction reports. If you used the emission rate with add-on controls option and you had a startup, shutdown, or malfunction during the semiannual reporting period, you must submit the reports specified in paragraphs (c)(1) and (2) of this section.

(1) If your actions were consistent with your startup, shutdown, and malfunction plan, you must include the information specified in §63.10(d) in the semiannual compliance report required by paragraph (a) of this section.

(2) If your actions were not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report as described in paragraphs (c)(2)(i) and (ii) of this section.

(i) You must describe the actions taken during the event in a report delivered by facsimile, telephone, or other means to the Administrator within 2 working days after starting actions that are inconsistent with the plan.

(ii) You must submit a letter to the Administrator within 7 working days after the end of the event, unless you have made alternative arrangements with the Administrator as specified in §63.10(d)(5)(ii). The letter must contain the information specified in §63.10(d)(5)(ii).

§63.4530 What records must I keep?

You must collect and keep records of the data and information specified in this section. Failure to collect and keep these records is a deviation from the applicable standard.

(a) A copy of each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report. If you are using the predominant activity alternative under §63.4490(c), you must keep records of the data and calculations used to determine the predominant activity. If you are using the facility-specific emission limit alternative under §63.4490(c), you must keep records of the data used to calculate the facility-specific emission limit for the initial compliance demonstration. You must also keep records of any data used in each annual predominant activity determination and in the calculation of the facility-specific emission limit for each 12-month compliance period included in the semi-annual compliance reports.

(b) A current copy of information provided by materials suppliers or manufacturers, such as manufacturer’s formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner and/or other additive, and cleaning material, and the mass fraction of coating solids for each coating. If you conducted testing to determine mass fraction of organic HAP, density, or mass fraction of coating solids,

you must keep a copy of the complete test report. If you use information provided to you by the manufacturer or supplier of the material that was based on testing, you must keep the summary sheet of results provided to you by the manufacturer or supplier. You are not required to obtain the test report or other supporting documentation from the manufacturer or supplier.

(c) For each compliance period, the records specified in paragraphs (c)(1) through (4) of this section.

(1) A record of the coating operations on which you used each compliance option and the time periods (beginning and ending dates and times) for each option you used.

(2) For the compliant material option, a record of the calculation of the organic HAP content for each coating, using Equation 1 of §63.4541.

(3) For the emission rate without add-on controls option, a record of the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1, 1A through 1C, and 2 of §63.4551 and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.4551(e)(4); the calculation of the total mass of coating solids used each month using Equation 2 of §63.4551; and the calculation of each 12-month organic HAP emission rate using Equation 3 of §63.4551.

(4) For the emission rate with add-on controls option, records of the calculations specified in paragraphs (c)(4)(i) through (v) of this section.

(i) The calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1 and 1A through 1C of §63.4551; and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.4551(e)(4);

(ii) The calculation of the total mass of coating solids used each month using Equation 2 of §63.4551;

(iii) The calculation of the mass of organic HAP emission reduction by emission capture systems and add-on control devices using Equations 1 and 1A through 1D of §63.4561 and Equations 2, 3, and 3A through 3C of §63.4561, as applicable;

(iv) The calculation of each month’s organic HAP emission rate using Equation 4 of §63.4561; and

(v) The calculation of each 12-month organic HAP emission rate using Equation 5 of §63.4561.

(d) A record of the name and mass of each coating, thinner and/or other additive, and cleaning material used during each compliance period. If you are using the compliant material option for all coatings at the source, you may maintain purchase records for each material used rather than a record of the mass used.

(e) A record of the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each compliance period.

(f) A record of the mass fraction of coating solids for each coating used during each compliance period.

(g) If you use an allowance in Equation 1 of §63.4551 for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to §63.4551(e)(4), you must keep records of the information specified in paragraphs (h)(1) through (3) of this section.

(1) The name and address of each TSDF to which you sent waste materials for which you use an allowance in Equation 1 of §63.4551, a statement of which subparts under 40 CFR parts 262, 264, 265, and 266 apply to the facility; and the date of each shipment.

(2) Identification of the coating operations producing waste materials included in each shipment and the month or months in which you used the allowance for these materials in Equation 1 of §63.4551.

(3) The methodology used in accordance with §63.4551(e)(4) to determine the total amount of waste materials sent to or the amount collected, stored, and designated for transport to a TSDF each month; and the methodology to determine the mass of organic HAP contained in these waste materials. This must include the sources for all data used in the determination, methods used to generate the data, frequency of testing or monitoring, and supporting calculations and documentation, including the waste manifest for each shipment.

(h) You must keep records of the date, time, and duration of each deviation.

(i) If you use the emission rate with add-on controls option, you must keep the records specified in paragraphs (k)(1) through (8) of this section.

(1) For each deviation, a record of whether the deviation occurred during a period of startup, shutdown, or malfunction.

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) The records required to show continuous compliance with each operating limit specified in Table 1 to this subpart that applies to you.

(4) For each capture system that is a PTE, the data and documentation you used to support a determination that the capture system meets the criteria in Method 204 of appendix M to 40 CFR part 51 for a PTE and has a capture efficiency of 100 percent, as specified in §63.4565(a).

(5) For each capture system that is not a PTE, the data and documentation you used to determine capture efficiency according to the requirements specified in §§63.4564 and 63.4565(b) through (e), including the records specified in paragraphs (k)(5)(i) through (iii) of this section that apply to you.

(i) <u>Records for a liquid-to-uncaptured gas protocol using a temporary total enclosure or building enclosure</u>. Records of the mass of total volatile hydrocarbon (TVH) as measured by Method 204A or 204F of appendix M to 40 CFR part 51 for each material used in the coating operation, and the total TVH for all materials used during each capture efficiency test run, including a copy of the test report. Records of the mass of TVH emissions not captured by the capture system that exited the temporary total enclosure or building enclosure during each capture efficiency test run, as measured by Method 204D or 204E of appendix M to 40 CFR part 51, including a copy of the test report. Records documenting that the enclosure used for

the capture efficiency test met the criteria in Method 204 of appendix M to 40 CFR part 51 for either a temporary total enclosure or a building enclosure.

(ii) Records for a gas-to-gas protocol using a temporary total enclosure or a building enclosure. Records of the mass of TVH emissions captured by the emission capture system as measured by Method 204B or 204C of appendix M to 40 CFR part 51 at the inlet to the add-on control device, including a copy of the test report. Records of the mass of TVH emissions not captured by the capture system that exited the temporary total enclosure or building enclosure during each capture efficiency test run as measured by Method 204D or 204E of appendix M to 40 CFR part 51, including a copy of the test report. Records documenting that the enclosure used for the capture efficiency test met the criteria in Method 204 of appendix M to 40 CFR part 51 for either a temporary total enclosure or a building enclosure.

(iii) Records for an alternative protocol. Records needed to document a capture efficiency determination using an alternative method or protocol as specified in §63.4565(e), if applicable.

(6) The records specified in paragraphs (k)(6)(i) and (ii) of this section for each add-on control device organic HAP destruction or removal efficiency determination as specified in §63.4566.

(i) Records of each add-on control device performance test conducted according to §§63.4564 and 63.4566.

(ii) Records of the coating operation conditions during the add-on control device performance test showing that the performance test was conducted under representative operating conditions.

(7) Records of the data and calculations you used to establish the emission capture and add-on control device operating limits as specified in §63.4567 and to document compliance with the operating limits as specified in Table 1 to this subpart.

(8) A record of the work practice plan required by §63.4493 and documentation that you are implementing the plan on a continuous basis.

§63.4531 In what form and for how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1). Where appropriate, the records may be maintained as electronic spreadsheets or as a database.

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). You may keep the records off-site for the remaining 3 years.

Compliance Requirements for the Compliant Material Option

§63.4540 By what date must I conduct the initial compliance demonstration?

You must complete the initial compliance demonstration for the initial compliance period according to the requirements in §63.4541. The initial compliance period begins on the applicable compliance date specified in §63.4483 and ends on the last day of the 12th month following the compliance date. If the compliance date occurs on any day other than the

first day of a month, then the initial compliance period extends through that month plus the next 12 months. The initial compliance demonstration includes the calculations according to §63.4541 and supporting documentation showing that during the initial compliance period, you used no coating with an organic HAP content that exceeded the applicable emission limit in §63.4490, and that you used no thinners and/or other additives, or cleaning materials that contained organic HAP as determined according to §63.4541(a).

§63.4541 How do I demonstrate initial compliance with the emission limitations?

You may use the compliant material option for any individual coating operation, for any group of coating operations in the affected source, or for all the coating operations in the affected source. You must use either the emission rate without add-on controls option or the emission rate with add-on controls option for any coating operation in the affected source for which you do not use this option. To demonstrate initial compliance using the compliant material option, the coating operation or group of coating operations must use no coating with an organic HAP content that exceeds the applicable emission limits in §63.4490 and must use no thinner and/or other additive, or cleaning material that contains organic HAP as determined according to this section. Any coating operation for which you use the compliant material option is not required to meet the operating limits or work practice standards required in §§63.4492 and 63.4493, respectively. You must conduct a separate initial compliance demonstration for each general use coating, TPO coating, automotive lamp coating, and assembled on-road vehicle coating affected source unless you are demonstrating compliance with a predominant activity or facility-specific emission limit as provided in §63.4490(c). If you are demonstrating compliance with a predominant activity or facility-specific emission limit as provided in §63.4490(c), you must demonstrate that all coating operations included in the predominant activity determination or calculation of the facility-specific emission limit comply with that limit. You must meet all the requirements of this section. Use the procedures in this section on each coating, thinner and/or other additive, and cleaning material in the condition it is in when it is received from its manufacturer or supplier and prior to any alteration. You do not need to redetermine the organic HAP content of coatings, thinners and/or other additives, and cleaning materials that are reclaimed on-site (or reclaimed off-site if you have documentation showing that you received back the exact same materials that were sent off-site) and reused in the coating operation for which you use the compliant material option, provided these materials in their condition as received were demonstrated to comply with the compliant material option.

(a) Determine the mass fraction of organic HAP for each material used. You must determine the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during the compliance period by using one of the options in paragraphs (a)(1) through (5) of this section.

(1) Method 311 (appendix A to 40 CFR part 63). You may use Method 311 for determining the mass fraction of organic HAP. Use the procedures

specified in paragraphs (a)(1)(i) and (ii) of this section when performing a Method 311 test.

(i) Count each organic HAP that is measured to be present at 0.1 percent by mass or more for Occupational Safety and Health Administration (OSHA)-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is measured to be 0.5 percent of the material by mass, you do not have to count it. Express the mass fraction of each organic HAP you count as a value truncated to four places after the decimal point (e.g., 0.3791).

(ii) Calculate the total mass fraction of organic HAP in the test material by adding up the individual organic HAP mass fractions and truncating the result to three places after the decimal point (e.g., 0.763).

(2) Method 24 (appendix A to 40 CFR part 60). For coatings, you may use Method 24 to determine the mass fraction of nonaqueous volatile matter and use that value as a substitute for mass fraction of organic HAP. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, you may use the alternative method contained in appendix A to this subpart, rather than Method 24. You may use the volatile fraction that is emitted, as measured by the alternative method in appendix A to this subpart, as a substitute for the mass fraction of organic HAP.

(3) Alternative method. You may use an alternative test method for determining the mass fraction of organic HAP once the Administrator has approved it. You must follow the procedure in §63.7(f) to submit an alternative test method for approval.

(4) Information from the supplier or manufacturer of the material. You may rely on information other than that generated by the test methods specified in paragraphs (a)(1) through (3) of this section, such as manufacturer's formulation data, if it represents each organic HAP that is present at 0.1 percent by mass or more for OSHA-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is 0.5 percent of the material by mass, you do not have to count it. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, you may rely on manufacturer's data that expressly states the organic HAP or volatile matter mass fraction emitted. If there is a disagreement between such information and results of a test conducted according to paragraphs (a)(1) through (3) of this section, then the test method results will take precedence unless, after consultation you demonstrate to the satisfaction of the enforcement agency that the formulation data are correct.

(5) Solvent blends. Solvent blends may be listed as single components for some materials in data provided by manufacturers or suppliers. Solvent blends may contain organic HAP which must be counted toward the total organic HAP mass fraction of the materials. When test data and manufacturer's data for solvent blends are not available, you may use the default values for the mass fraction of organic HAP in these solvent blends listed in Table 3 or 4 to this subpart. If you use the

tables, you must use the values in Table 3 for all solvent blends that match Table 3 entries according to the instructions for Table 3, and you may use Table 4 only if the solvent blends in the materials you use do not match any of the solvent blends in Table 3 and you know only whether the blend is aliphatic or aromatic. However, if the results of a Method 311 (appendix A to 40 CFR part 63) test indicate higher values than those listed on Table 3 or 4 to this subpart, the Method 311 results will take precedence unless, after consultation you demonstrate to the satisfaction of the enforcement agency that the formulation data are correct.

(b) Determine the mass fraction of coating solids for each coating. You must determine the mass fraction of coating solids (kg (lb) of coating solids per kg (lb) of coating) for each coating used during the compliance period by a test, by information provided by the supplier or the manufacturer of the material, or by calculation, as specified in paragraphs (b)(1) through (3) of this section.

(1) Method 24 (appendix A to 40 CFR part 60). Use Method 24 for determining the mass fraction of coating solids. For reactive adhesives in which some of the liquid fraction reacts to form solids, you may use the alternative method contained in appendix A to this subpart, rather than Method 24, to determine the mass fraction of coating solids.

(2) Alternative method. You may use an alternative test method for determining the solids content of each coating once the Administrator has approved it. You must follow the procedure in §63.7(f) to submit an alternative test method for approval.

(3) Information from the supplier or manufacturer of the material. You may obtain the mass fraction of coating solids for each coating from the supplier or manufacturer. If there is disagreement between such information and the test method results, then the test method results will take precedence unless, after consultation you demonstrate to the satisfaction of the enforcement agency that the formulation data are correct.

(c) Calculate the organic HAP content of each coating. Calculate the organic HAP content, kg (lb) organic HAP emitted per kg (lb) coating solids used, of each coating used during the compliance period using Equation 1 of this section:

Where:

$$H_c = \frac{W_c}{S_c} \qquad \textbf{(Eq. 1)}$$

H_C = Organic HAP content of the coating, kg (lb) of organic HAP emitted per kg (lb) coating solids used.

W_C = Mass fraction of organic HAP in the coating, kg organic HAP per kg coating, determined according to paragraph (a) of this section.

S_C = Mass fraction of coating solids, kg coating solids per kg coating, determined according to paragraph (b) of this section.

(d) Compliance demonstration. The calculated organic HAP content for each coating used during the initial compliance period must be less than or equal to the applicable emission limit in §63.4490; and each thinner and/or other additive, and cleaning material used during the initial compliance period must contain no organic HAP, determined according to paragraph (a) of this section. You must keep all records required by §§63.4530 and 63.4531. As part of the notification of compliance status required in §63.4510, you must identify the coating operation(s) for which you used the compliant material option and submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the initial compliance period because you used no coatings for which the organic HAP content exceeded the applicable emission limit in §63.4490, and you used no thinners and/or other additives, or cleaning materials that contained organic HAP, determined according to the procedures in paragraph (a) of this section.

§63.4542 How do I demonstrate continuous compliance with the emission limitations?

(a) For each compliance period to demonstrate continuous compliance, you must use no coating for which the organic HAP content (determined using Equation 1 of §63.4541) exceeds the applicable emission limit in §63.4490, and use no thinner and/or other additive, or cleaning material that contains organic HAP, determined according to §63.4541(a). A compliance period consists of 12 months. Each month, after the end of the initial compliance period described in §63.4540, is the end of a compliance period consisting of that month and the preceding 11 months. If you are complying with a facility-specific emission limit under §63.4490(c), you must also perform the calculation using Equation 1 in §63.4490(c)(2) on a monthly basis using the data from the previous 12 months of operation.

(b) If you choose to comply with the emission limitations by using the compliant material option, the use of any coating, thinner and/or other additive, or cleaning material that does not meet the criteria specified in paragraph (a) of this section is a deviation from the emission limitations that must be reported as specified in §§63.4510(c)(6) and 63.4520(a)(5).

(c) As part of each semiannual compliance report required by §63.4520, you must identify the coating operation(s) for which you used the compliant material option. If there were no deviations from the applicable emission limit in §63.4490, submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because you used no coatings for which the organic HAP content exceeded the applicable emission limit in §63.4490, and you used no thinner and/or other additive, or cleaning material that contained organic HAP, determined according to §63.4541(a).

(d) You must maintain records as specified in §§63.4530 and 63.4531.

Compliance Requirements for the Emission Rate Without Add-On Controls Option

§63.4550 By what date must I conduct the initial compliance demonstration?

You must complete the initial compliance demonstration for the initial compliance period according to the requirements of §63.4551. The initial compliance period begins on the applicable compliance date specified in §63.4483 and ends on the last day of the 12th month following the

compliance date. If the compliance date occurs on any day other than the first day of a month, then the initial compliance period extends through the end of that month plus the next 12 months. You must determine the mass of organic HAP emissions and mass of coating solids used each month and then calculate an organic HAP emission rate at the end of the initial compliance period. The initial compliance demonstration includes the calculations according to §63.4551 and supporting documentation showing that during the initial compliance period the organic HAP emission rate was equal to or less than the applicable emission limit in §63.4490.

§63.4551 How do I demonstrate initial compliance with the emission limitations?

You may use the emission rate without add-on controls option for any individual coating operation, for any group of coating operations in the affected source, or for all the coating operations in the affected source. You must use either the compliant material option or the emission rate with add-on controls option for any coating operation in the affected source for which you do not use this option. To demonstrate initial compliance using the emission rate without add-on controls option, the coating operation or group of coating operations must meet the applicable emission limit in §63.4490, but is not required to meet the operating limits or work practice standards in §§63.4492 and 63.4493, respectively. You must conduct a separate initial compliance demonstration for each general use, TPO, automotive lamp, and assembled on-road vehicle coating operation unless you are demonstrating compliance with a predominant activity or facility-specific emission limit as provided in §63.4490(c). If you are demonstrating compliance with a predominant activity or facility-specific emission limit as provided in §63.4490(c), you must demonstrate that all coating operations included in the predominant activity determination or calculation of the facility-specific emission limit comply with that limit. You must meet all the requirements of this section. When calculating the organic HAP emission rate according to this section, do not include any coatings, thinners and/or other additives, or cleaning materials used on coating operations for which you use the compliant material option or the emission rate with add-on controls option. You do not need to redetermine the mass of organic HAP in coatings, thinners and/or other additives, or cleaning materials that have been reclaimed on-site (or reclaimed off-site if you have documentation showing that you received back the exact same materials that were sent off-site) and reused in the coating operation for which you use the emission rate without add-on controls option. If you use coatings, thinners and/or other additives, or cleaning materials that have been reclaimed on-site, the amount of each used in a month may be reduced by the amount of each that is reclaimed. That is, the amount used may be calculated as the amount consumed to account for materials that are reclaimed.

(a) Determine the mass fraction of organic HAP for each material. Determine the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each month according to the requirements in §63.4541(a).

(b) Determine the mass fraction of coating solids. Determine the mass fraction of coating solids (kg (lb) of coating solids per kg (lb) of

coating) for each coating used during each month according to the requirements in §63.4541(b).

(c) Determine the density of each material. Determine the density of each liquid coating, thinner and/or other additive, and cleaning material used during each month from test results using ASTM Method D1475-98, "Standard Test Method for Density of Liquid Coatings, Inks, and Related Products" (incorporated by reference, see §63.14), information from the supplier or manufacturer of the material, or reference sources providing density or specific gravity data for pure materials. If there is disagreement between ASTM Method D1475-98 and other such information sources, the test results will take precedence unless, after consultation you demonstrate to the satisfaction of the enforcement agency that the formulation data are correct. If you purchase materials or monitor consumption by weight instead of volume, you do not need to determine material density. Instead, you may use the material weight in place of the combined terms for density and volume in Equations 1A, 1B, 1C, and 2 of this section.

(d) Determine the volume of each material used. Determine the volume (liters) of each coating, thinner and/or other additive, and cleaning material used during each month by measurement or usage records. If you purchase materials or monitor consumption by weight instead of volume, you do not need to determine the volume of each material used. Instead, you may use the material weight in place of the combined terms for density and volume in Equations 1A, 1B, 1C, and 2 of this section.

(e) Calculate the mass of organic HAP emissions. The mass of organic HAP emissions is the combined mass of organic HAP contained in all coatings, thinners and/or other additives, and cleaning materials used during each month minus the organic HAP in certain waste materials. Calculate the mass of organic HAP emissions using Equation 1 of this section.

$$H_e \text{ ' } A \text{ \% } B \text{ \% } C \text{ \& } R_w \qquad \textbf{(Eq. 1)}$$

Where:

H_e	=	Total mass of organic HAP emissions during the month, kg.
A	=	Total mass of organic HAP in the coatings used during the month, kg, as calculated in Equation 1A of this section.
B	=	Total mass of organic HAP in the thinners and/or other additives used during the month, kg, as calculated in Equation 1B of this section.
C	=	Total mass of organic HAP in the cleaning materials used during the month, kg, as calculated in Equation 1C of this section.

R_W = Total mass of organic HAP in waste materials sent or designated for shipment to a hazardous waste TSDF for treatment or disposal during the month, kg, determined according to paragraph (e)(4) of this section. (You may assign a value of zero to R_W if you do not wish to use this allowance.)

(1) Calculate the kg organic HAP in the coatings used during the month using Equation 1A of this section:

$$A = \sum_{i=1}^{m} (Vol_{c,i})(D_{c,i})(W_{c,i}) \qquad \textbf{(Eq. 1A)}$$

Where:

A = Total mass of organic HAP in the coatings used during the month, kg.

$Vol_{c,i}$ = Total volume of coating, i, used during the month, liters.

$D_{c,i}$ = Density of coating, i, kg coating per liter coating.

$W_{c,i}$ = Mass fraction of organic HAP in coating, i, kg organic HAP per kg coating. For reactive adhesives as defined in §63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to this subpart.

m = Number of different coatings used during the month.

(2) Calculate the kg of organic HAP in the thinners and/or other additives used during the month using Equation 1B of this section:

$$B = \sum_{j=1}^{n} (Vol_{t,j})(D_{t,j})(W_{t,j}) \qquad \textbf{(Eq. 1B)}$$

Where:

B = Total mass of organic HAP in the thinners and/or other additives used during the month, kg.

$Vol_{t,j}$ = Total volume of thinner and/or other additive, j, used during the month, liters.

$D_{t,j}$ = Density of thinner and/or other additive, j, kg per liter.

$W_{t,j}$ = Mass fraction of organic HAP in thinner and/or other additive, j, kg organic HAP per kg thinner and/or other additive. For reactive adhesives as defined in §63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to this subpart.

n = Number of different thinners and/or other additives used during the month.

(3) Calculate the kg organic HAP in the cleaning materials used during the month using Equation 1C of this section:

$$C = \sum_{k=1}^{p} (Vol_{s,k})(D_{s,k})(W_{s,k}) \qquad \textbf{(Eq. 1C)}$$

Where:

C	=	Total mass of organic HAP in the cleaning materials used during the month, kg.
$Vol_{s,k}$	=	Total volume of cleaning material, k, used during the month, liters.
$D_{s,k}$	=	Density of cleaning material, k, kg per liter.
$W_{s,k}$	=	Mass fraction of organic HAP in cleaning material, k, kg organic HAP per kg material.
p	=	Number of different cleaning materials used during the month.

(4) If you choose to account for the mass of organic HAP contained in waste materials sent or designated for shipment to a hazardous waste TSDF in Equation 1 of this section, then you must determine the mass according to paragraphs (e)(4)(i) through (iv) of this section.

(i) You may only include waste materials in the determination that are generated by coating operations in the affected source for which you use Equation 1 of this section and that will be treated or disposed of by a facility that is regulated as a TSDF under 40 CFR part 262, 264, 265, or 266. The TSDF may be either off-site or on-site. You may not include organic HAP contained in wastewater.

(ii) You must determine either the amount of the waste materials sent to a TSDF during the month or the amount collected and stored during the month and designated for future transport to a TSDF. Do not include in your determination any waste materials sent to a TSDF during a month if you have already included them in the amount collected and stored during that month or a previous month.

(iii) Determine the total mass of organic HAP contained in the waste materials specified in paragraph (e)(4)(ii) of this section.

(iv) You must document the methodology you use to determine the amount of waste materials and the total mass of organic HAP they contain, as required in §63.4530(h). If waste manifests include this information, they may be used as part of the documentation of the amount of waste materials and mass of organic HAP contained in them.

(f) <u>Calculate the total mass of coating solids used</u>. Determine the total mass of coating solids used, kg, which is the combined mass of coating solids for all the coatings used during each month, using Equation 2 of this section:

$$M_{st} = \sum_{i=1}^{m} (Vol_{c,i})(D_{c,i})(M_{s,i}) \qquad \textbf{(Eq. 2)}$$

Where:

M_{st}	=	Total mass of coating solids used during the month, kg.
$Vol_{c,i}$	=	Total volume of coating, i, used during the month, liters.

Dc,i	=	Density of coating, i, kgs per liter coating, determined according to §63.4551(c).
Ms,i	=	Mass fraction of coating solids for coating, i, kgs solids per kg coating, determined according to §63.4541(b).
m	=	Number of coatings used during the month.

(g) Calculate the organic HAP emission rate. Calculate the organic HAP emission rate for the compliance period, kg (lb) organic HAP emitted per kg (lb) coating solids used, using Equation 3 of this section:

(Eq. 3)

$$H_{yr} = \frac{\sum_{y=1}^{n} H_e}{\sum_{y=1}^{n} M_{st}}$$

Where:

H_{yr}	=	Average organic HAP emission rate for the compliance period, kg organic HAP emitted per kg coating solids used.
H_e	=	Total mass of organic HAP emissions from all materials used during month, y, kg, as calculated by Equation 1 of this section.
Mst	=	Total mass of coating solids used during month, y, kg, as calculated by Equation 2 of this section.
y	=	Identifier for months.
n	=	Number of full or partial months in the compliance period (for the initial compliance period, n equals 12 if the compliance date falls on the first day of a month; otherwise n equals 13; for all following compliance periods, n equals 12).

(h) Compliance demonstration. The organic HAP emission rate for the initial compliance period calculated using Equation 3 of this section must be less than or equal to the applicable emission limit for each subcategory in §63.4490 or the predominant activity or facility-specific emission limit allowed in §63.4490(c). You must keep all records as required by §§63.4530 and 63.4531. As part of the notification of compliance status required by §63.4510, you must identify the coating operation(s) for which you used the emission rate without add-on controls option and submit a statement that

the coating operation(s) was (were) in compliance with the emission limitations during the initial compliance period because the organic HAP emission rate was less than or equal to the applicable emission limit in §63.4490, determined according to the procedures in this section.

§63.4552 How do I demonstrate continuous compliance with the emission limitations?

(a) To demonstrate continuous compliance, the organic HAP emission rate for each compliance period, determined according to §63.4551(a) through (g), must be less than or equal to the applicable emission limit in §63.4490. A compliance period consists of 12 months. Each month after the end of the initial compliance period described in §63.4550 is the end of a compliance period consisting of that month and the preceding 11 months. You must perform the calculations in §63.4551(a) through (g) on a monthly basis using data from the previous 12 months of operation. If you are complying with a facility-specific emission limit under §63.4490(c), you must also perform the calculation using Equation 1 in §63.4490(c)(2) on a monthly basis using the data from the previous 12 months of operation.

(b) If the organic HAP emission rate for any 12-month compliance period exceeded the applicable emission limit in §63.4490, this is a deviation from the emission limitation for that compliance period and must be reported as specified in §§63.4510(c)(6) and 63.4520(a)(6).

(c) As part of each semiannual compliance report required by §63.4520, you must identify the coating operation(s) for which you used the emission rate without add-on controls option. If there were no deviations from the emission limitations, you must submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit in §63.4490, determined according to §63.4551(a) through (g).

(d) You must maintain records as specified in §§63.4530 and 63.4531.

Compliance Requirements for the Emission Rate With Add-On Controls Option

§63.4560 By what date must I conduct performance tests and other initial compliance demonstrations?

(a) New and reconstructed affected sources. For a new or reconstructed affected source, you must meet the requirements of paragraphs (a)(1) through (4) of this section.

(1) All emission capture systems, add-on control devices, and CPMS must be installed and operating no later than the applicable compliance date specified in §63.4483. Except for solvent recovery systems for which you conduct liquid-liquid material balances according to §63.4561(j), you must conduct a performance test of each capture system and add-on control device according to §§63.4564, 63.4565, and 63.4566 and establish the operating limits required by §63.4492 no later than 180 days after the applicable compliance date specified in §63.4483. For a solvent recovery system for which you conduct liquid-liquid material balances according to §63.4561(j), you must initiate the first material balance no later than the applicable compliance date specified in §63.4483.

(2) You must develop and begin implementing the work practice plan required by §63.4493 no later than the compliance date specified in §63.4483.

(3) You must complete the initial compliance demonstration for the initial compliance period according to the requirements of §63.4561. The initial compliance period begins on the applicable compliance date specified in §63.4483 and ends on the last day of the 12th month following the compliance date. If the compliance date occurs on any day other than the first day of a month, then the initial compliance period extends through the end of that month plus the next 12 months. You must determine the mass of organic HAP emissions and mass of coatings solids used each month and then calculate an organic HAP emission rate at the end of the initial compliance period. The initial compliance demonstration includes the results of emission capture system and add-on control device performance tests conducted according to §§63.4564, 63.4565, and 63.4566; results of liquid-liquid material balances conducted according to §63.4561(j); calculations according to §63.4561 and supporting documentation showing that during the initial compliance period the organic HAP emission rate was equal to or less than the applicable emission limit in §63.4490; the operating limits established during the performance tests and the results of the continuous parameter monitoring required by §63.4568; and documentation of whether you developed and implemented the work practice plan required by §63.4493.

(4) You do not need to comply with the operating limits for the emission capture system and add-on control device required by §63.4492 until after you have completed the performance tests specified in paragraph (a)(1) of this section. Instead, you must maintain a log detailing the operation and maintenance of the emission capture system, add-on control device, and continuous parameter monitors during the period between the compliance date and the performance test. You must begin complying with the operating limits for your affected source on the date you complete the performance tests specified in paragraph (a)(1) of this section. The requirements in this paragraph (a)(4) do not apply to solvent recovery systems for which you conduct liquid-liquid material balances according to the requirements in §63.4561(j).

(b) Existing affected sources. For an existing affected source, you must meet the requirements of paragraphs (b)(1) through (3) of this section.

(1) All emission capture systems, add-on control devices, and CPMS must be installed and operating no later than the applicable compliance date specified in §63.4483. Except for solvent recovery systems for which you conduct liquid-liquid material balances according to §63.4561(j), you must conduct a performance test of each capture system and add-on control device according to the procedures in §§63.4564, 63.4565, and 63.4566 and establish the operating limits required by §63.4492 no later than the compliance date specified in §63.4483. For a solvent recovery system for which you conduct liquid-liquid material balances according to §63.4561(j), you must initiate the first material balance no later than the compliance date specified in §63.4483.

(2) You must develop and begin implementing the work practice plan required by §63.4493 no later than the compliance date specified in §63.4483.

(3) You must complete the initial compliance demonstration for the initial compliance period according to the requirements of §63.4561. The initial compliance period begins on the applicable compliance date specified in §63.4483 and ends on the last day of the 12th month following the compliance date. If the compliance date occurs on any day other than the first day of a month, then the initial compliance period extends through the end of that month plus the next 12 months. You must determine the mass of organic HAP emissions and mass of coatings solids used each month and then calculate an organic HAP emission rate at the end of the initial compliance period. The initial compliance demonstration includes the results of emission capture system and add-on control device performance tests conducted according to §§63.4564, 63.4565, and 63.4566; results of liquid-liquid material balances conducted according to §63.4561(j); calculations according to §63.4561 and supporting documentation showing that during the initial compliance period the organic HAP emission rate was equal to or less than the applicable emission limit in §63.4490; the operating limits established during the performance tests and the results of the continuous parameter monitoring required by §63.4568; and documentation of whether you developed and implemented the work practice plan required by §63.4493.

(c) You are not required to conduct an initial performance test to determine capture efficiency or destruction efficiency of a capture system or control device if you receive approval to use the results of a performance test that has been previously conducted on that capture system or control device. Any such previous tests must meet the conditions described in paragraphs (c)(1) through (3) of this section.

(1) The previous test must have been conducted using the methods and conditions specified in this subpart.

(2) Either no process or equipment changes must have been made since the previous test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes.

(3) Either the required operating parameters were established in the previous test or sufficient data were collected in the previous test to establish the required operating parameters.

<u>§63.4561 How do I demonstrate initial compliance</u>?

(a) You may use the emission rate with add-on controls option for any coating operation, for any group of coating operations in the affected source, or for all of the coating operations in the affected source. You may include both controlled and uncontrolled coating operations in a group for which you use this option. You must use either the compliant material option or the emission rate without add-on controls option for any coating operation in the affected source for which you do not use the emission rate with add-on controls option. To demonstrate initial compliance, the coating operation(s) for which you use the emission rate with add-on controls option must meet the applicable emission limitations in §§63.4490,

63.4492, and 63.4493. You must conduct a separate initial compliance demonstration for each general use, TPO, automotive lamp, and assembled on-road vehicle coating operation, unless you are demonstrating compliance with a predominant activity or facility-specific emission limit as provided in §63.4490(c). If you are demonstrating compliance with a predominant activity or facility-specific emission limit as provided in §63.4490(c), you must demonstrate that all coating operations included in the predominant activity determination or calculation of the facility-specific emission limit comply with that limit. You must meet all the requirements of this section. When calculating the organic HAP emission rate according to this section, do not include any coatings, thinners and/or other additives, or cleaning materials used on coating operations for which you use the compliant material option or the emission rate without add-on controls option. You do not need to redetermine the mass of organic HAP in coatings, thinners and/or other additives, or cleaning materials that have been reclaimed onsite (or reclaimed off-site if you have documentation showing that you received back the exact same materials that were sent off-site) and reused in the coatings operation(s) for which you use the emission rate with add-on controls option. If you use coatings, thinners and/or other additives, or cleaning materials that have been reclaimed on-site, the amount of each used in a month may be reduced by the amount of each that is reclaimed. That is, the amount used may be calculated as the amount consumed to account for materials that are reclaimed.

(b) Compliance with operating limits. Except as provided in §63.4560(a)(4), and except for solvent recovery systems for which you conduct liquid-liquid material balances according to the requirements of paragraph (j) of this section, you must establish and demonstrate continuous compliance during the initial compliance period with the operating limits required by §63.4492, using the procedures specified in §§63.4567 and 63.4568.

(c) Compliance with work practice requirements. You must develop, implement, and document your implementation of the work practice plan required by §63.4493 during the initial compliance period, as specified in §63.4530.

(d) Compliance with emission limits. You must follow the procedures in paragraphs (e) through (n) of this section to demonstrate compliance with the applicable emission limit in §63.4490 for each affected source in each subcategory. (e) Determine the mass fraction of organic HAP, density, volume used, and mass fraction of coating solids. Follow the procedures specified in §63.4551(a) through (d) to determine the mass fraction of organic HAP, density, and volume of each coating, thinner and/or other additive, and cleaning material used during each month; and the mass fraction of coating solids for each coating used during each month.

(f) Calculate the total mass of organic HAP emissions before add-on controls. Using Equation 1 of §63.4551, calculate the total mass of organic HAP emissions before add-on controls from all coatings, thinners and/or other additives, and cleaning materials used during each month in the coating operation or group of coating operations for which you use the emission rate with add-on controls option.

(g) Calculate the organic HAP emission reduction for each controlled coating operation. Determine the mass of organic HAP emissions reduced for each controlled coating operation during each month. The emission reduction determination quantifies the total organic HAP emissions that pass through the emission capture system and are destroyed or removed by the add-on control device. Use the procedures in paragraph (h) of this section to calculate the mass of organic HAP emission reduction for each controlled coating operation using an emission capture system and add-on control device other than a solvent recovery system for which you conduct liquid-liquid material balances. For each controlled coating operation using a solvent recovery system for which you conduct a liquid-liquid material balance, use the procedures in paragraph (j) of this section to calculate the organic HAP emission reduction.

(h) Calculate the organic HAP emission reduction for each controlled coating operation not using liquid-liquid material balance. Use Equation 1 of this section to calculate the organic HAP emission reduction for each controlled coating operation using an emission capture system and add-on control device other than a solvent recovery system for which you conduct liquid-liquid material balances. The calculation applies the emission capture system efficiency and add-on control device efficiency to the mass of organic HAP contained in the coatings, thinners and/or other additives, and cleaning materials that are used in the coating operation served by the emission capture system and add-on control device during each month. You must assume zero efficiency for the emission capture system and add-on control device for any period of time a deviation specified in §63.4563(c) or (d) occurs in the controlled coating operation, including a deviation during a period of startup, shutdown, or malfunction, unless you have other data indicating the actual efficiency of the emission capture system and add-on control device and the use of these data is approved by the Administrator. Equation 1 of this section treats the materials used during such a deviation as if they were used on an uncontrolled coating operation for the time period of the deviation.

$$H_C = \left(A_C + B_C + C_C + R_W + H_{UNC}\right)\left(\frac{CE}{100} \times \frac{DRE}{100}\right) \qquad \textbf{(Eq. 1)}$$

Where:

H_C = Mass of organic HAP emission reduction for the controlled coating operation during the month, kg.

A_C = Total mass of organic HAP in the coatings used in the controlled coating operation during the month, kg, as calculated in Equation 1A of this section.

B_C = Total mass of organic HAP in the thinners and/or other additives used in the controlled coating operation during the month, kg, as calculated in Equation 1B of this section.

C_C = Total mass of organic HAP in the cleaning materials used in the controlled coating operation during the month, kg, as calculated in Equation 1C of this section.

R_W = Total mass of organic HAP in waste materials sent or designated for shipment to a hazardous waste TSDF for treatment or disposal during the compliance period, kg, determined according to §63.4951(e)(4). (You may assign a value of zero to R_W if you do not wish to use this allowance.)

H_{UNC} = Total mass of organic HAP in the coatings, thinners and/or other additives, and cleaning materials used during all deviations specified in §63.4563(c) and (d) that occurred during the month in the controlled coating operation, kg, as calculated in Equation 1D of this section.

CE = Capture efficiency of the emission capture system vented to the add-on control device, percent. Use the test methods and procedures specified in §§63.4564 and 63.4565 to measure and record capture efficiency.

DRE = Organic HAP destruction or removal efficiency of the add-on control device, percent. Use the test methods and procedures in §§63.4564 and 63.4566 to measure and record the organic HAP destruction or removal efficiency.

(1) Calculate the mass of organic HAP in the coatings used in the controlled coating operation, kg (lb), using Equation 1A of this section:

$$A_C = \sum_{i=1}^{m} (Vol_{c,i})(D_{c,i})(W_{c,i}) \qquad \textbf{(Eq. 1A)}$$

Where:

A_C = Total mass of organic HAP in the coatings used in the controlled coating operation during the month, kg.

$Vol_{c,i}$ = Total volume of coating, i, used during the month, liters.

$D_{c,i}$ = Density of coating, i, kg per liter.

$W_{c,i}$ = Mass fraction of organic HAP in coating, i, kg per kg. For reactive adhesives as defined in §63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to this subpart.

m = Number of different coatings used.

(2) Calculate the mass of organic HAP in the thinners and/or other additives used in the controlled coating operation, kg (lb), using Equation 1B of this section:

$$B_C = \sum_{j=1}^{n} (Vol_{t,j})(D_{t,j})(W_{t,j}) \qquad \textbf{(Eq. 1B)}$$

Where:

B_C = Total mass of organic HAP in the thinners and/or other additives used in the controlled coating operation during the month, kg.

$Vol_{t,j}$	=	Total volume of thinner and/or other additive, j, used during the month, liters.
$D_{t,j}$	=	Density of thinner and/or other additive, j, kg per liter.
$W_{t,j}$	=	Mass fraction of organic HAP in thinner and/or other additive, j, kg per kg. For reactive adhesives as defined in §63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to this subpart.
n	=	Number of different thinners and/or other additives used.

(3) Calculate the mass of organic HAP in the cleaning materials used in the controlled coating operation during the month, kg (lb), using Equation 1C of this section:

$$C_C = \sum_{k=1}^{p} (Vol_{s,k})(D_{s,k})(W_{s,k}) \qquad \textbf{(Eq. 1C)}$$

Where:

C_C	=	Total mass of organic HAP in the cleaning materials used in the controlled coating operation during the month, kg.
$Vol_{s,k}$	=	Total volume of cleaning material, k, used during the month, liters.
$D_{s,k}$	=	Density of cleaning material, k, kg per liter.
$W_{s,k}$	=	Mass fraction of organic HAP in cleaning material, k, kg per kg.
p	=	Number of different cleaning materials used.

(4) Calculate the mass of organic HAP in the coatings, thinners and/or other additives, and cleaning materials used in the controlled coating operation during deviations specified in §63.4563(c) and (d), using Equation 1D of this section:

$$H_{UNC} = \sum_{h=1}^{q} (Vol_h)(D_h)(W_h) \qquad \textbf{(Eq. 1D)}$$

Where:

H_{UNC}	=	Total mass of organic HAP in the coatings, thinners and/or other additives, and cleaning materials used during all deviations specified in §63.4563(c) and (d) that occurred during the month in the controlled coating operation, kg.
Vol_h	=	Total volume of coating, thinner and/or other additive, or cleaning material, h, used in the controlled coating operation during deviations, liters.
D_h	=	Density of coating, thinner and/or other additives, or cleaning material, h, kg per liter.
W_h	=	Mass fraction of organic HAP in coating, thinner and/or other additives, or cleaning material, h, kg organic HAP per kg coating. For reactive adhesives as defined

in §63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to this subpart.

q = Number of different coatings, thinners and/or other additives, and cleaning materials used.

(i) [Reserved]

(j) Calculate the organic HAP emission reduction for each controlled coating operation using liquid-liquid material balances. For each controlled coating operation using a solvent recovery system for which you conduct liquid-liquid material balances, calculate the organic HAP emission reduction by applying the volatile organic matter collection and recovery efficiency to the mass of organic HAP contained in the coatings, thinners and/or other additives, and cleaning materials that are used in the coating operation controlled by the solvent recovery system during each month. Perform a liquid-liquid material balance for each month as specified in paragraphs (j)(1) through (6) of this section. Calculate the mass of organic HAP emission reduction by the solvent recovery system as specified in paragraph (j)(7) of this section.

(1) For each solvent recovery system, install, calibrate, maintain, and operate according to the manufacturer's specifications, a device that indicates the cumulative amount of volatile organic matter recovered by the solvent recovery system each month. The device must be initially certified by the manufacturer to be accurate to within ± 2.0 percent of the mass of volatile organic matter recovered.

(2) For each solvent recovery system, determine the mass of volatile organic matter recovered for the month, based on measurement with the device required in paragraph (j)(1) of this section.

(3) Determine the mass fraction of volatile organic matter for each coating, thinner and/or other additive, and cleaning material used in the coating operation controlled by the solvent recovery system during the month, kg volatile organic matter per kg coating. You may determine the volatile organic matter mass fraction using Method 24 of 40 CFR part 60, appendix A, or an EPA approved alternative method, or you may use information provided by the manufacturer or supplier of the coating. In the event of any inconsistency between information provided by the manufacturer or supplier and the results of Method 24 of 40 CFR part 60, appendix A, or an approved alternative method, the test method results will take precedence unless, after consultation you demonstrate to the satisfaction of the enforcement agency that the formulation data are correct.

(4) Determine the density of each coating, thinner and/or other additive, and cleaning material used in the coating operation controlled by the solvent recovery system during the month, kg per liter, according to §63.4551(c).

(5) Measure the volume of each coating, thinner and/or other additive, and cleaning material used in the coating operation controlled by the solvent recovery system during the month, liters.

(6) Each month, calculate the solvent recovery system's volatile organic matter collection and recovery efficiency, using Equation 2 of this section:

$$R_V = 100 \frac{M_{VR}}{\sum_{i=1}^{m} Vol_i D_i WV_{c,i} + \sum_{j=1}^{n} Vol_j D_j WV_{t,j} + \sum_{k=1}^{p} Vol_k D_k WV_{s,k}} \quad \textbf{(Eq. 2)}$$

Where:

R_V	=	Volatile organic matter collection and recovery efficiency of the solvent recovery system during the month, percent.
M_{VR}	=	Mass of volatile organic matter recovered by the solvent recovery system during the month, kg.
Vol_i	=	Volume of coating, i, used in the coating operation controlled by the solvent recovery system during the month, liters.
D_i	=	Density of coating, i, kg per liter.
$WV_{c,i}$	=	Mass fraction of volatile organic matter for coating, i, kg volatile organic matter per kg coating. For reactive adhesives as defined in §63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to this subpart.
Vol_j	=	Volume of thinner and/or other additive, j, used in the coating operation controlled by the solvent recovery system during the month, liters.
D_j	=	Density of thinner and/or other additive, j, kg per liter.
$WV_{t,j}$	=	Mass fraction of volatile organic matter for thinner and/or other additive, j, kg volatile organic matter per kg thinner and/or other additive. For reactive adhesives as defined in §63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to this subpart.
Vol_k	=	Volume of cleaning material, k, used in the coating operation controlled by the solvent recovery system during the month, liters.
D_k	=	Density of cleaning material, k, kg per liter.
$WV_{s,k}$	=	Mass fraction of volatile organic matter for cleaning material, k, kg volatile organic matter per kg cleaning material.
m	=	Number of different coatings used in the coating operation controlled by the solvent recovery system during the month.
n	=	Number of different thinners and/or other additives used in the coating operation controlled by the solvent recovery system during the month.
p	=	Number of different cleaning materials used in the coating operation controlled by the solvent recovery system during the month.

(7) Calculate the mass of organic HAP emission reduction for the coating operation controlled by the solvent recovery system during the month, using Equation 3 of this section and according to paragraphs (j)(7)(i) through (iii) of this section:

$$H_{CSR} = \left(A_{CSR} + B_{CSR} + C_{CSR}\right)\left(\frac{R_V}{100}\right) \qquad \textbf{(Eq. 3)}$$

Where:

H_{CSR} = Mass of organic HAP emission reduction for the coating operation controlled by the solvent recovery system using a liquid-liquid material balance during the month, kg.

A_{CSR} = Total mass of organic HAP in the coatings used in the coating operation controlled by the solvent recovery system, kg, calculated using Equation 3A of this section.

B_{CSR} = Total mass of organic HAP in the thinners and/or other additives used in the coating operation controlled by the solvent recovery system, kg, calculated using Equation 3B of this section.

C_{CSR} = Total mass of organic HAP in the cleaning materials used in the coating operation controlled by the solvent recovery system, kg, calculated using Equation 3C of this section.

R_V = Volatile organic matter collection and recovery efficiency of the solvent recovery system, percent, from Equation 2 of this section.

(i) Calculate the mass of organic HAP in the coatings used in the coating operation controlled by the solvent recovery system, kg, using Equation 3A of this section.

$$A_{CSR} = \sum_{i=1}^{m} (Vol_{c,i})(D_{c,i})(W_{c,i}) \qquad \textbf{(Eq. 3A)}$$

Where:

A_{CSR} = Total mass of organic HAP in the coatings used in the coating operation controlled by the solvent recovery system during the month, kg.

$Vol_{c,i}$ = Total volume of coating, i, used during the month in the coating operation controlled by the solvent recovery system, liters.

$D_{c,i}$ = Density of coating, i, kg per liter.

$W_{c,i}$ = Mass fraction of organic HAP in coating, i, kg organic HAP per kg coating. For reactive adhesives as defined in §63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to this subpart.

m = Number of different coatings used.

(ii) Calculate the mass of organic HAP in the thinners and/or other additives used in the coating operation controlled by the solvent recovery system, kg, using Equation 3B of this section:

$$B_{CSR} = \sum_{j=1}^{n} (Vol_{t,j})(D_{t,j})(W_{t,j}) \qquad \textbf{(Eq. 3B)}$$

Where:

B_{CSR}	=	Total mass of organic HAP in the thinners and/or other additives used in the coating operation controlled by the solvent recovery system during the month, kg.
$Vol_{t,j}$	=	Total volume of thinner and/or other additive, j, used during the month in the coating operation controlled by the solvent recovery system, liters.
$D_{t,j}$	=	Density of thinner and/or other additive, j, kg per liter.
$W_{t,j}$	=	Mass fraction of organic HAP in thinner and/or other additive, j, kg organic HAP per kg thinner and/or other additive. For reactive adhesives as defined in §63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to this subpart.
n	=	Number of different thinners and/or other additives used.

(iii) Calculate the mass of organic HAP in the cleaning materials used in the coating operation controlled by the solvent recovery system during the month, kg, using Equation 3C of this section:

$$C_{CSR} = \sum_{k=1}^{p} (Vol_{s,k})(D_{s,k})(W_{s,k}) \qquad \textbf{(Eq. 3C)}$$

Where:

C_{CSR}	=	Total mass of organic HAP in the cleaning materials used in the coating operation controlled by the solvent recovery system during the month, kg.
$Vol_{s,k}$	=	Total volume of cleaning material, k, used during the month in the coating operation controlled by the solvent recovery system, liters.
$D_{s,k}$	=	Density of cleaning material, k, kg per liter.
$W_{s,k}$	=	Mass fraction of organic HAP in cleaning material, k, kg organic HAP per kg cleaning material.
p	=	Number of different cleaning materials used.

(k) <u>Calculate the total mass of coating solids used</u>. Determine the total mass of coating solids used, kg, which is the combined mass of coating solids for all the coatings used during each month in the coating operation or group of coating operations for which you use the emission rate with add-on controls option, using Equation 2 of §63.4551.

(l) <u>Calculate the mass of organic HAP emissions for each month</u>. Determine the mass of organic HAP emissions, kg, during each month, using Equation 4 of this section:

$$H_{HAP} = H_e - \sum_{i=1}^{q} (H_{C,i}) - \sum_{j=1}^{r} (H_{CSR,j}) \qquad \textbf{(Eq. 4)}$$

where:

H_{HAP}	=	Total mass of organic HAP emissions for the month, kg.
H_e	=	Total mass of organic HAP emissions before add-on controls from all the coatings, thinners and/or other additives, and cleaning materials used during the month, kg, determined according to paragraph (f) of this section.
$H_{C,i}$	=	Total mass of organic HAP emission reduction for controlled coating operation, i, not using a liquid-liquid material balance, during the month, kg, from Equation 1 of this section.
$H_{CSR,j}$	=	Total mass of organic HAP emission reduction for coating operation, j, controlled by a solvent recovery system using a liquid-liquid material balance, during the month, kg, from Equation 3 of this section.
q	=	Number of controlled coating operations not controlled by a solvent recovery system using a liquid-liquid material balance.
r	=	Number of coating operations controlled by a solvent recovery system using a liquid-liquid material balance.

(m) Calculate the organic HAP emission rate for the compliance period. Determine the organic HAP emission rate for the compliance period, kg (lb) of organic HAP emitted per kg (lb) coating solids used, using Equation 5 of this section:

$$H_{annual} = \frac{\sum_{y=1}^{n} H_{HAP,y}}{\sum_{y=1}^{n} M_{st,y}} \qquad \textbf{(Eq. 5)}$$

Where:

H_{annual}	=	Organic HAP emission rate for the compliance period, kg organic HAP emitted per kg coating solids used.
$H_{HAP,y}$	=	Organic HAP emissions for month, y, kg, determined according to Equation 4 of this section.
$M_{st,y}$	=	Total mass of coating solids used during month, y, kg, from Equation 2 of §63.4551.
y	=	Identifier for months.
n	=	Number of full or partial months in the compliance period (for the initial compliance period, n equals 12 if the compliance date falls on the first day of a

month; otherwise n equals 13; for all following compliance periods, n equals 12).

(n) Compliance demonstration. The organic HAP emission rate for the initial compliance period, calculated using Equation 5 of this section, must be less than or equal to the applicable emission limit for each subcategory in §63.4490 or the predominant activity or facility-specific emission limit allowed in §63.4490(c). You must keep all records as required by §§63.4530 and 63.4531. As part of the notification of compliance status required by §63.4510, you must identify the coating operation(s) for which you used the emission rate with add-on controls option and submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the initial compliance period because the organic HAP emission rate was less than or equal to the applicable emission limit in §63.4490, and you achieved the operating limits required by §63.4492 and the work practice standards required by §63.4493.

§63.4562 [Reserved.]

§63.4563 How do I demonstrate continuous compliance with the emission limitations?

(a) To demonstrate continuous compliance with the applicable emission limit in §63.4490, the organic HAP emission rate for each compliance period, determined according to the procedures in §63.4561, must be equal to or less than the applicable emission limit in §63.4490. A compliance period consists of 12 months. Each month after the end of the initial compliance period described in §63.4560 is the end of a compliance period consisting of that month and the preceding 11 months. You must perform the calculations in §63.4561 on a monthly basis using data from the previous 12 months of operation. If you are complying with a facility-specific emission limit under §63.4490(c), you must also perform the calculation using Equation 1 in §63.4490(c)(2) on a monthly basis using the data from the previous 12 months of operation.

(b) If the organic HAP emission rate for any 12-month compliance period exceeded the applicable emission limit in §63.4490, this is a deviation from the emission limitation for that compliance period that must be reported as specified in §§63.4510(c)(6) and 63.4520(a)(7).

(c) You must demonstrate continuous compliance with each operating limit required by §63.4492 that applies to you, as specified in Table 1 to this subpart, when the coating line is in operation.

(1) If an operating parameter is out of the allowed range specified in Table 1 to this subpart, this is a deviation from the operating limit that must be reported as specified in §§63.4510(c)(6) and 63.4520(a)(7).

(2) If an operating parameter deviates from the operating limit specified in Table 1 to this subpart, then you must assume that the emission capture system and add-on control device were achieving zero efficiency during the time period of the deviation, unless you have other data indicating the actual efficiency of the emission capture system and add-on control device and the use of these data is approved by the Administrator.

(d) You must meet the requirements for bypass lines in §63.4568(b) for controlled coating operations for which you do not conduct liquid-liquid material balances. If any bypass line is opened and emissions are diverted to the atmosphere when the coating operation is running, this is a deviation that must be reported as specified in §§63.4510(c)(6) and 63.4520(a)(7). For the purposes of completing the compliance calculations specified in §§63.4561(h), you must treat the materials used during a deviation on a controlled coating operation as if they were used on an uncontrolled coating operation for the time period of the deviation as indicated in Equation 1 of §63.4561.

(e) You must demonstrate continuous compliance with the work practice standards in §63.4493. If you did not develop a work practice plan, or you did not implement the plan, or you did not keep the records required by §63.4530(k)(8), this is a deviation from the work practice standards that must be reported as specified in §§63.4510(c)(6) and 63.4520(a)(7).

(f) As part of each semiannual compliance report required in §63.4520, you must identify the coating operation(s) for which you used the emission rate with add-on controls option. If there were no deviations from the emission limitations, submit a statement that you were in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit in §63.4490, and you achieved the operating limits required by §63.4492 and the work practice standards required by §63.4493 during each compliance period.

(g) During periods of startup, shutdown, or malfunction of the emission capture system, add-on control device, or coating operation that may affect emission capture or control device efficiency, you must operate in accordance with the startup, shutdown, and malfunction plan required by §63.4500(c).

(h) [Reserved]

(i) [Reserved]

(j) You must maintain records as specified in §§63.4530 and 63.4531.

§63.4564 What are the general requirements for performance tests?

(a) You must conduct each performance test required by §63.4560 according to the requirements in §63.7(e)(1) and under the conditions in this section, unless you obtain a waiver of the performance test according to the provisions in §63.7(h).

(1) Representative coating operation operating conditions. You must conduct the performance test under representative operating conditions for the coating operation. Operations during periods of startup, shutdown, or malfunction and during periods of nonoperation do not constitute representative conditions. You must record the process information that is necessary to document operating conditions during the test and explain why the conditions represent normal operation.

(2) Representative emission capture system and add-on control device operating conditions. You must conduct the performance test when the emission capture system and add-on control device are operating at a representative flow rate, and the add-on control device is operating at a representative inlet concentration. You must record information that is necessary to document emission capture system and add-on control device

operating conditions during the test and explain why the conditions represent normal operation.

(b) You must conduct each performance test of an emission capture system according to the requirements in §63.4565. You must conduct each performance test of an add-on control device according to the requirements in §63.4566.

§63.4565 How do I determine the emission capture system efficiency?

You must use the procedures and test methods in this section to determine capture efficiency as part of the performance test required by §63.4560.

(a) Assuming 100 percent capture efficiency. You may assume the capture system efficiency is 100 percent if both of the conditions in paragraphs (a)(1) and (2) of this section are met:

(1) The capture system meets the criteria in Method 204 of appendix M to 40 CFR part 51 for a PTE and directs all the exhaust gases from the enclosure to an add-on control device.

(2) All coatings, thinners and/or other additives, and cleaning materials used in the coating operation are applied within the capture system; coating solvent flash-off, curing, and drying occurs within the capture system; and the removal or evaporation of cleaning materials from the surfaces they are applied to occurs within the capture system. For example, this criterion is not met if parts enter the open shop environment when being moved between a spray booth and a curing oven.

(b) Measuring capture efficiency. If the capture system does not meet both of the criteria in paragraphs (a)(1) and (2) of this section, then you must use one of the three protocols described in paragraphs (c), (d), and (e) of this section to measure capture efficiency. The capture efficiency measurements use TVH capture efficiency as a surrogate for organic HAP capture efficiency. For the protocols in paragraphs (c) and (d) of this section, the capture efficiency measurement must consist of three test runs. Each test run must be at least 3 hours duration or the length of a production run, whichever is longer, up to 8 hours. For the purposes of this test, a production run means the time required for a single part to go from the beginning to the end of the production, which includes surface preparation activities and drying and curing time.

(c) Liquid-to-uncaptured-gas protocol using a temporary total enclosure or building enclosure. The liquid-to-uncaptured-gas protocol compares the mass of liquid TVH in materials used in the coating operation to the mass of TVH emissions not captured by the emission capture system. Use a temporary total enclosure or a building enclosure and the procedures in paragraphs (c)(1) through (6) of this section to measure emission capture system efficiency using the liquid-to-uncaptured-gas protocol.

(1) Either use a building enclosure or construct an enclosure around the coating operation where coatings, thinners and/or other additives, and cleaning materials are applied, and all areas where emissions from these applied coatings and materials subsequently occur, such as flash-off, curing, and drying areas. The areas of the coating operation where capture devices collect emissions for routing to an add-on control device, such as the entrance and exit areas of an oven or spray booth, must also be inside the enclosure. The enclosure must meet the applicable definition of a

temporary total enclosure or building enclosure in Method 204 of appendix M to 40 CFR part 51.

(2) Use Method 204A or 204F of appendix M to 40 CFR part 51 to determine the mass fraction of TVH liquid input from each coating, thinner and/or other additive, and cleaning material used in the coating operation during each capture efficiency test run. To make the determination, substitute TVH for each occurrence of the term volatile organic compounds (VOC) in the methods.

(3) Use Equation 1 of this section to calculate the total mass of TVH liquid input from all the coatings, thinners and/or other additives, and cleaning materials used in the coating operation during each capture efficiency test run:

$$TVH_{used} = \sum_{i=1}^{n} (TVH_i)(Vol_i)(D_i) \qquad \textbf{(Eq. 1)}$$

Where:

TVH_{used}	=	Mass of liquid TVH in materials used in the coating operation during the capture efficiency test run, kg.
TVH_i	=	Mass fraction of TVH in coating, thinner and/or other additive, or cleaning material, i, that is used in the coating operation during the capture efficiency test run, kg TVH per kg material.
Vol_i	=	Total volume of coating, thinner and/or other additive, or cleaning material, i, used in the coating operation during the capture efficiency test run, liters.
D_i	=	Density of coating, thinner and/or other additive, or cleaning material, i, kg material per liter material.
n	=	Number of different coatings, thinners and/or other additives, and cleaning materials used in the coating operation during the capture efficiency test run.

(4) Use Method 204D or 204E of appendix M to 40 CFR part 51 to measure the total mass, kg, of TVH emissions that are not captured by the emission capture system. They are measured as they exit the temporary total enclosure or building enclosure during each capture efficiency test run. To make the measurement, substitute TVH for each occurrence of the term VOC in the methods.

(i) Use Method 204D of appendix M to 40 CFR part 51 if the enclosure is a temporary total enclosure.

(ii) Use Method 204E of appendix M to 40 CFR 51 if the enclosure is a building enclosure. During the capture efficiency measurement, all organic compound emitting operations inside the building enclosure, other than the coating operation for which capture efficiency is being determined, must be shut down, but all fans and blowers must be operating normally.

(5) For each capture efficiency test run, determine the percent capture efficiency of the emission capture system using Equation 2 of this section:

$$CE = \frac{(TVH_{used} - TVH_{uncaptured})}{TVH_{used}} \times 100 \qquad \textbf{(Eq. 2)}$$

Where:

CE	=	Capture efficiency of the emission capture system vented to the add-on control device, percent.
TVH_{used}	=	Total mass of TVH liquid input used in the coating operation during the capture efficiency test run, kg.
$TVH_{uncaptured}$	=	Total mass of TVH that is not captured by the emission capture system and that exits from the temporary total enclosure or building enclosure during the capture efficiency test run, kg.

(6) Determine the capture efficiency of the emission capture system as the average of the capture efficiencies measured in the three test runs.

(d) Gas-to-gas protocol using a temporary total enclosure or a building enclosure. The gas-to-gas protocol compares the mass of TVH emissions captured by the emission capture system to the mass of TVH emissions not captured. Use a temporary total enclosure or a building enclosure and the procedures in paragraphs (d)(1) through (5) of this section to measure emission capture system efficiency using the gas-to-gas protocol.

(1) Either use a building enclosure or construct an enclosure around the coating operation where coatings, thinners and/or other additives, and cleaning materials are applied, and all areas where emissions from these applied coatings and materials subsequently occur, such as flash-off, curing, and drying areas. The areas of the coating operation where capture devices collect emissions generated by the coating operation for routing to an add-on control device, such as the entrance and exit areas of an oven or a spray booth, must also be inside the enclosure. The enclosure must meet the applicable definition of a temporary total enclosure or building enclosure in Method 204 of appendix M to 40 CFR part 51.

(2) Use Method 204B or 204C of appendix M to 40 CFR part 51 to measure the total mass, kg, of TVH emissions captured by the emission capture system during each capture efficiency test run as measured at the inlet to the add-on control device. To make the measurement, substitute TVH for each occurrence of the term VOC in the methods.

(i) The sampling points for the Method 204B or 204C measurement must be upstream from the add-on control device and must represent total emissions routed from the capture system and entering the add-on control device.

(ii) If multiple emission streams from the capture system enter the add-on control device without a single common duct, then the emissions entering the add-on control device must be simultaneously measured in each duct and the total emissions entering the add-on control device must be determined.

(3) Use Method 204D or 204E of appendix M to 40 CFR part 51 to measure the total mass, kg, of TVH emissions that are not captured by the emission capture system; they are measured as they exit the temporary total enclosure or building enclosure during each capture efficiency test run.

To make the measurement, substitute TVH for each occurrence of the term VOC in the methods.

(i) Use Method 204D of appendix M to 40 CFR part 51 if the enclosure is a temporary total enclosure.

(ii) Use Method 204E of appendix M to 40 CFR part 51 if the enclosure is a building enclosure. During the capture efficiency measurement, all organic compound emitting operations inside the building enclosure, other than the coating operation for which capture efficiency is being determined, must be shut down, but all fans and blowers must be operating normally.

(4) For each capture efficiency test run, determine the percent capture efficiency of the emission capture system using Equation 3 of this section:

$$CE = \frac{TVH_{captured}}{(TVH_{captured} + TVH_{uncaptured})} \times 100 \qquad \textbf{(Eq. 3)}$$

Where:

CE	=	Capture efficiency of the emission capture system vented to the add-on control device, percent.
$TVH_{captured}$	=	Total mass of TVH captured by the emission capture system as measured at the inlet to the add-on control device during the emission capture efficiency test run, kg.
$TVH_{uncaptured}$	=	Total mass of TVH that is not captured by the emission capture system and that exits from the temporary total enclosure or building enclosure during the capture efficiency test run, kg.

(5) Determine the capture efficiency of the emission capture system as the average of the capture efficiencies measured in the three test runs.

(e) Alternative capture efficiency protocol. As an alternative to the procedures specified in paragraphs (c) and (d) of this section and subject to the approval of the Administrator, you may determine capture efficiency using any other capture efficiency protocol and test methods that satisfy the criteria of either the DQO or LCL approach as described in appendix A to subpart KK of this part.

§63.4566 How do I determine the add-on control device emission destruction or removal efficiency?

You must use the procedures and test methods in this section to determine the add-on control device emission destruction or removal efficiency as part of the performance test required by §63.4560. You must conduct three test runs as specified in §63.7(e)(3) and each test run must last at least 1 hour.

(a) For all types of add-on control devices, use the test methods specified in paragraphs (a)(1) through (5) of this section.

(1) Use Method 1 or 1A of appendix A to 40 CFR part 60, as appropriate, to select sampling sites and velocity traverse points.

(2) Use Method 2, 2A, 2C, 2D, 2F, or 2G of appendix A to 40 CFR part 60, as appropriate, to measure gas volumetric flow rate.

(3) Use Method 3, 3A, or 3B of appendix A to 40 CFR part 60, as appropriate, for gas analysis to determine dry molecular weight.

(4) Use Method 4 of appendix A to 40 CFR part 60, to determine stack gas moisture.

(5) Methods for determining gas volumetric flow rate, dry molecular weight, and stack gas moisture must be performed, as applicable, during each test run.

(b) Measure total gaseous organic mass emissions as carbon at the inlet and outlet of the add-on control device simultaneously, using either Method 25 or 25A of appendix A to 40 CFR part 60.

(1) Use Method 25 if the add-on control device is an oxidizer and you expect the total gaseous organic concentration as carbon to be more than 50 parts per million (ppm) at the control device outlet.

(2) Use Method 25A if the add-on control device is an oxidizer and you expect the total gaseous organic concentration as carbon to be 50 ppm or less at the control device outlet.

(3) Use Method 25A if the add-on control device is not an oxidizer.

(c) If two or more add-on control devices are used for the same emission stream, then you must measure emissions at the outlet to the atmosphere of each device. For example, if one add-on control device is a concentrator with an outlet to the atmosphere for the high-volume dilute stream that has been treated by the concentrator, and a second add-on control device is an oxidizer with an outlet to the atmosphere for the low-volume concentrated stream that is treated with the oxidizer, you must measure emissions at the outlet of the oxidizer and the high volume dilute stream outlet of the concentrator.

(d) For each test run, determine the total gaseous organic emissions mass flow rates for the inlet and the outlet of the add-on control device, using Equation 1 of this section. If there is more than one inlet or outlet to the add-on control device, you must calculate the total gaseous organic mass flow rate using Equation 1 of this section for each inlet and each outlet and then total all of the inlet emissions and total all of the outlet emissions:

$$M_f = Q_{sd} C_c (12)(0.0416)(10^{-6}) \qquad \textbf{(Eq. 1)}$$

Where:

M_f	=	Total gaseous organic emissions mass flow rate, kg/per hour (h).
C_c	=	Concentration of organic compounds as carbon in the vent gas, as determined by Method 25 or Method 25A, parts per million by volume (ppmv), dry basis.
Q_{sd}	=	Volumetric flow rate of gases entering or exiting the add-on control device, as determined by Method 2, 2A, 2C, 2D, 2F, or 2G, dry standard cubic meters/hour (dscm/h).
0.0416	=	Conversion factor for molar volume, kg-moles per cubic meter (mol/m^3) (@ 293 Kelvin (K) and 760 millimeters of mercury (mmHg)).

(e) For each test run, determine the add-on control device organic emissions destruction or removal efficiency, using Equation 2 of this section:

$$DRE = \frac{M_{fi} - M_{fo}}{M_{fi}} \times 100 \qquad \textbf{(Eq. 2)}$$

Where:

DRE	=	Organic emissions destruction or removal efficiency of the add-on control device, percent.
M_{fi}	=	Total gaseous organic emissions mass flow rate at the inlet(s) to the add-on control device, using Equation 1 of this section, kg/h.
M_{fo}	=	Total gaseous organic emissions mass flow rate at the outlet(s) of the add-on control device, using Equation 1 of this section, kg/h.

(f) Determine the emission destruction or removal efficiency of the add-on control device as the average of the efficiencies determined in the three test runs and calculated in Equation 2 of this section.

§63.4567 How do I establish the emission capture system and add-on control device operating limits during the performance test?

During the performance test required by §63.4560 and described in §§63.4564, 63.4565, and 63.4566, you must establish the operating limits required by §63.4492 according to this section, unless you have received approval for alternative monitoring and operating limits under §63.8(f) as specified in §63.4492.

(a) Thermal oxidizers. If your add-on control device is a thermal oxidizer, establish the operating limits according to paragraphs (a)(1) and (2) of this section.

(1) During the performance test, you must monitor and record the combustion temperature at least once every 15 minutes during each of the three test runs. You must monitor the temperature in the firebox of the thermal oxidizer or immediately downstream of the firebox before any substantial heat exchange occurs.

(2) Use the data collected during the performance test to calculate and record the average combustion temperature maintained during the performance test. This average combustion temperature is the minimum operating limit for your thermal oxidizer.

(b) Catalytic oxidizers. If your add-on control device is a catalytic oxidizer, establish the operating limits according to either paragraphs (b)(1) and (2) or paragraphs (b)(3) and (4) of this section.

(1) During the performance test, you must monitor and record the temperature just before the catalyst bed and the temperature difference across the catalyst bed at least once every 15 minutes during each of the three test runs.

(2) Use the data collected during the performance test to calculate and record the average temperature just before the catalyst bed and the average temperature difference across the catalyst bed maintained during the performance test. These are the minimum operating limits for your catalytic oxidizer.

(3) You must monitor the temperature at the inlet to the catalyst bed and implement a site-specific inspection and maintenance plan for your catalytic oxidizer as specified in paragraph (b)(4) of this section. During the performance test, you must monitor and record the temperature just before the catalyst bed at least once every 15 minutes during each of the three test runs. Use the data collected during the performance test to calculate and record the average temperature just before the catalyst bed during the performance test. This is the minimum operating limit for your catalytic oxidizer.

(4) You must develop and implement an inspection and maintenance plan for your catalytic oxidizer(s) for which you elect to monitor according to paragraph (b)(3) of this section. The plan must address, at a minimum, the elements specified in paragraphs (b)(4)(i) through (iii) of this section.

(i) Annual sampling and analysis of the catalyst activity (i.e., conversion efficiency) following the manufacturer's or catalyst supplier's recommended procedures. If problems are found during the catalyst activity test, you must replace the catalyst bed or take other corrective action consistent with the manufacturer's recommendations.

(ii) Monthly external inspection of the catalytic oxidizer system, including the burner assembly and fuel supply lines for problems and, as necessary, adjust the equipment to assure proper air-to-fuel mixtures.

(iii) Annual internal inspection of the catalyst bed to check for channeling, abrasion, and settling. If problems are found during the annual internal inspection of the catalyst, you must replace the catalyst bed or take other corrective action consistent with the manufacturer's recommendations. If the catalyst bed is replaced and is not of like or better kind and quality as the old catalyst then you must conduct a new performance test to determine destruction efficiency according to §63.4566. If a catalyst bed is replaced and the replacement catalyst is of like or better kind and quality as the old catalyst, then a new performance test to determine destruction efficiency is not required and you may continue to use the previously established operating limits for that catalytic oxidizer.

(c) Regenerative carbon adsorbers. If your add-on control device is a regenerative carbon adsorber, establish the operating limits according to paragraphs (c)(1) and (2) of this section.

(1) You must monitor and record the total regeneration desorbing gas (e.g., steam or nitrogen) mass flow for each regeneration cycle, and the carbon bed temperature after each carbon bed regeneration and cooling cycle for the regeneration cycle either immediately preceding or immediately following the performance test.

(2) The operating limits for your regenerative carbon adsorber are the minimum total desorbing gas mass flow recorded during the regeneration cycle and the maximum carbon bed temperature recorded after the cooling cycle.

(d) Condensers. If your add-on control device is a condenser, establish the operating limits according to paragraphs (d)(1) and (2) of this section.

(1) During the performance test, you must monitor and record the condenser outlet (product side) gas temperature at least once every 15 minutes during each of the three test runs.

(2) Use the data collected during the performance test to calculate and record the average condenser outlet (product side) gas temperature maintained during the performance test. This average condenser outlet gas temperature is the maximum operating limit for your condenser.

(e) Concentrators. If your add-on control device includes a concentrator, you must establish operating limits for the concentrator according to paragraphs (e)(1) through (4) of this section.

(1) During the performance test, you must monitor and record the desorption concentrate stream gas temperature at least once every 15 minutes during each of the three runs of the performance test.

(2) Use the data collected during the performance test to calculate and record the average temperature. This is the minimum operating limit for the desorption concentrate gas stream temperature.

(3) During the performance test, you must monitor and record the pressure drop of the dilute stream across the concentrator at least once every 15 minutes during each of the three runs of the performance test.

(4) Use the data collected during the performance test to calculate and record the average pressure drop. This is the minimum operating limit for the dilute stream across the concentrator.

(f) Emission capture systems. For each capture device that is not part of a PTE that meets the criteria of §63.4565(a), establish an operating limit for either the gas volumetric flow rate or duct static pressure, as specified in paragraphs (f)(1) and (2) of this section. The operating limit for a PTE is specified in Table 1 to this subpart.

(1) During the capture efficiency determination required by §63.4560 and described in §§63.4564 and 63.4565, you must monitor and record either the gas volumetric flow rate or the duct static pressure for each separate capture device in your emission capture system at least once every 15 minutes during each of the three test runs at a point in the duct between the capture device and the add-on control device inlet.

(2) Calculate and record the average gas volumetric flow rate or duct static pressure for the three test runs for each capture device. This average gas volumetric flow rate or duct static pressure is the minimum operating limit for that specific capture device.

§63.4568 What are the requirements for continuous parameter monitoring system installation, operation, and maintenance?

(a) General. You must install, operate, and maintain each CPMS specified in paragraphs (c), (e), (f), and (g) of this section according to paragraphs (a)(1) through (6) of this section. You must install, operate, and maintain each CPMS specified in paragraphs (b) and (d) of this section according to paragraphs (a)(3) through (5) of this section.

(1) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period. You must have a minimum of four equally spaced successive cycles of CPMS operation in 1 hour.

(2) You must determine the average of all recorded readings for each successive 3-hour period of the emission capture system and add-on control device operation.

(3) You must record the results of each inspection, calibration, and validation check of the CPMS.

(4) You must maintain the CPMS at all times and have available necessary parts for routine repairs of the monitoring equipment.

(5) You must operate the CPMS and collect emission capture system and add-on control device parameter data at all times that a controlled coating operation is operating, except during monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, if applicable, calibration checks and required zero and span adjustments).

(6) You must not use emission capture system or add-on control device parameter data recorded during monitoring malfunctions, associated repairs, out-of-control periods, or required quality assurance or control activities when calculating data averages. You must use all the data collected during all other periods in calculating the data averages for determining compliance with the emission capture system and add-on control device operating limits.

(7) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the CPMS to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. Any period for which the monitoring system is out-of-control and data are not available for required calculations is a deviation from the monitoring requirements.

(b) Capture system bypass line. You must meet the requirements of paragraphs (b)(1) and (2) of this section for each emission capture system that contains bypass lines that could divert emissions away from the add-on control device to the atmosphere.

(1) You must monitor or secure the valve or closure mechanism controlling the bypass line in a nondiverting position in such a way that the valve or closure mechanism cannot be opened without creating a record that the valve was opened. The method used to monitor or secure the valve or closure mechanism must meet one of the requirements specified in paragraphs (b)(1)(i) through (v) of this section.

(i) Flow control position indicator. Install, calibrate, maintain, and operate according to the manufacturer's specifications a flow control position indicator that takes a reading at least once every 15 minutes and provides a record indicating whether the emissions are directed to the add-on control device or diverted from the add-on control device. The time of occurrence and flow control position must be recorded, as well as every time the flow direction is changed. The flow control position indicator must be installed at the entrance to any bypass line that could divert the emissions away from the add-on control device to the atmosphere.

(ii) Car-seal or lock-and-key valve closures. Secure any bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. You must visually inspect the seal or closure mechanism at least once every month to ensure that the valve is maintained in the closed position, and the emissions are not diverted away from the add-on control device to the atmosphere.

(iii) Valve closure monitoring. Ensure that any bypass line valve is in the closed (nondiverting) position through monitoring of valve position at least once every 15 minutes. You must inspect the monitoring system at least once every month to verify that the monitor will indicate valve position.

(iv) Automatic shutdown system. Use an automatic shutdown system in which the coating operation is stopped when flow is diverted by the bypass line away from the add-on control device to the atmosphere when the coating operation is running. You must inspect the automatic shutdown system at least once every month to verify that it will detect diversions of flow and shut down the coating operation.

(v) Flow direction indicator. Install, calibrate, maintain, and operate according to the manufacturer's specifications a flow direction indicator that takes a reading at least once every 15 minutes and provides a record indicating whether the emissions are directed to the add-on control device or diverted from the add-on control device. Each time the flow direction changes, the next reading of the time of occurrence and flow direction must be recorded. The flow direction indicator must be installed in each bypass line or air makeup supply line that could divert the emissions away from the add-on control device to the atmosphere.

(2) If any bypass line is opened, you must include a description of why the bypass line was opened and the length of time it remained open in the semiannual compliance reports required in §63.4520.

(c) Thermal oxidizers and catalytic oxidizers. If you are using a thermal oxidizer or catalytic oxidizer as an add-on control device (including those used with concentrators or with carbon adsorbers to treat desorbed concentrate streams), you must comply with the requirements in paragraphs (c)(1) through (3) of this section:

(1) For a thermal oxidizer, install a gas temperature monitor in the firebox of the thermal oxidizer or in the duct immediately downstream of the firebox before any substantial heat exchange occurs.

(2) For a catalytic oxidizer, install gas temperature monitors upstream and/or downstream of the catalyst bed as required in §63.3967(b).

(3) For all thermal oxidizers and catalytic oxidizers, you must meet the requirements in paragraphs (a) and (c)(3)(i) through (v) of this section for each gas temperature monitoring device.

(i) Locate the temperature sensor in a position that provides a representative temperature.

(ii) Use a temperature sensor with a measurement sensitivity of 5 degrees Fahrenheit or 1.0 percent of the temperature value, whichever is larger.

(iii) Before using the sensor for the first time or when relocating or replacing the sensor, perform a validation check by comparing the sensor output to a calibrated temperature measurement device or by comparing the sensor output to a simulated temperature.

(iv) Conduct an accuracy audit every quarter and after every deviation. Accuracy audit methods include comparisons of sensor output to redundant temperature sensors, to calibrated temperature measurement devices, or to temperature simulation devices.

(v) Conduct a visual inspection of each sensor every quarter if redundant temperature sensors are not used.

(d) Regenerative carbon adsorbers. If you are using a regenerative carbon adsorber as an add-on control device, you must monitor the total regeneration desorbing gas (e.g., steam or nitrogen) mass flow for each regeneration cycle, the carbon bed temperature after each regeneration and cooling cycle, and comply with paragraphs (a)(3) through (5) and (d)(1) through (3) of this section.

(1) The regeneration desorbing gas mass flow monitor must be an integrating device having a measurement sensitivity of plus or minus 10 percent capable of recording the total regeneration desorbing gas mass flow for each regeneration cycle.

(2) The carbon bed temperature monitor must be capable of recording the temperature within 15 minutes of completing any carbon bed cooling cycle.

(3) For all regenerative carbon adsorbers, you must meet the requirements in paragraphs (c)(3)(i) through (v) of this section for each temperature monitoring device.

(e) Condensers. If you are using a condenser, you must monitor the condenser outlet (product side) gas temperature and comply with paragraphs (a) and (e)(1) and (2) of this section.

(1) The temperature monitor must provide a gas temperature record at least once every 15 minutes.

(2) For all condensers, you must meet the requirements in paragraphs (c)(3)(i) through (v) of this section for each temperature monitoring device.

(f) Concentrators. If you are using a concentrator, such as a zeolite wheel or rotary carbon bed concentrator, you must comply with the requirements in paragraphs (f)(1) and (2) of this section.

(1) You must install a temperature monitor in the desorption gas stream. The temperature monitor must meet the requirements in paragraphs (a) and (c)(3) of this section.

(2) You must install a device to monitor pressure drop across the zeolite wheel or rotary carbon bed. The pressure monitoring device must meet the requirements in paragraphs (a) and (g)(2) of this section.

(g) Emission capture systems. The capture system monitoring system must comply with the applicable requirements in paragraphs (g)(1) and (2) of this section.

(1) For each flow measurement device, you must meet the requirements in paragraphs (a) and (g)(1)(i) through (vii) of this section.

(i) Locate a flow sensor in a position that provides a representative flow measurement in the duct from each capture device in the emission capture system to the add-on control device.

(ii) Use a flow sensor with an accuracy of at least 10 percent of the flow.

(iii) Perform an initial sensor calibration in accordance with the manufacturer’s requirements.

(iv) Perform a validation check before initial use or upon relocation or replacement of a sensor. Validation checks include comparison of sensor values with electronic signal simulations or via relative accuracy testing.

(v) Conduct an accuracy audit every quarter and after every deviation. Accuracy audit methods include comparisons of sensor values with electronic signal simulations or via relative accuracy testing.

(vi) Perform leak checks monthly.

(vii) Perform visual inspections of the sensor system quarterly if there is no redundant sensor.

(2) For each pressure drop measurement device, you must comply with the requirements in paragraphs (a) and (g)(2)(i) through (vii) of this section.

(i) Locate the pressure sensor(s) in or as close to a position that provides a representative measurement of the pressure drop across each opening you are monitoring.

(ii) Use a pressure sensor with an accuracy of at least 0.5 inches of water column or 5 percent of the measured value, whichever is larger.

(iii) Perform an initial calibration of the sensor according to the manufacturer's requirements.

(iv) Conduct a validation check before initial operation or upon relocation or replacement of a sensor. Validation checks include comparison of sensor values to calibrated pressure measurement devices or to pressure simulation using calibrated pressure sources.

(v) Conduct accuracy audits every quarter and after every deviation. Accuracy audits include comparison of sensor values to calibrated pressure measurement devices or to pressure simulation using calibrated pressure sources.

(vi) Perform monthly leak checks on pressure connections. A pressure of at least 1.0 inches of water column to the connection must yield a stable sensor result for at least 15 seconds.

(vii) Perform a visual inspection of the sensor at least monthly if there is no redundant sensor.

Other Requirements and Information

<u>§63.4580 Who implements and enforces this subpart</u>?

(a) This subpart can be implemented and enforced by us, the U.S. Environmental Protection Agency (EPA), or a delegated authority such as your State, local, or tribal agency. If the Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the EPA) has the authority to implement and enforce this subpart. You should contact your EPA Regional Office to find out if implementation and enforcement of 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 subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are listed in paragraphs (c)(1) through (4) of this section:

(1) Approval of alternatives to the requirements in §§63.4481 through 4483 and §§63.4490 through 4493.

(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.

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

§63.4581 What definitions apply to this subpart?

Terms used in this subpart are defined in the CAA, in 40 CFR 63.2, and in this section as follows:

Additive means a material that is added to a coating after purchase from a supplier (e.g., catalysts, activators, accelerators).

Add-on control means an air pollution control device, such as a thermal oxidizer or carbon adsorber, that reduces pollution in an air stream by destruction or removal before discharge to the atmosphere.

Adhesive, adhesive coating means any chemical substance that is applied for the purpose of bonding two surfaces together. Products used on humans and animals, adhesive tape, contact paper, or any other product with an adhesive incorporated onto or in an inert substrate shall not be considered adhesives under this subpart.

Assembled on-road vehicle coating means any coating operation in which coating is applied to the surface of some component or surface of a fully assembled motor vehicle or trailer intended for on-road use including, but not limited to, components or surfaces on automobiles and light-duty trucks that have been repaired after a collision or otherwise repainted, fleet delivery trucks, and motor homes and other recreational vehicles (including camping trailers and fifth wheels). Assembled on-road vehicle coating includes the concurrent coating of parts of the assembled on-road vehicle that are painted off-vehicle to protect systems, equipment, or to allow full coverage. Assembled on-road vehicle coating does not include surface coating operations that meet the applicability criteria of the Automobiles and Light-Duty Trucks NESHAP. Assembled on-road vehicle coating also does not include the use of adhesives, sealants, and caulks used in assembling on-road vehicles.

Automotive lamp coating means any coating operation in which coating is applied to the surface of some component of the body of an exterior automotive lamp, including the application of reflective argent coatings and clear topcoats. Exterior automotive lamps include head lamps, tail lamps, turn signals, brake lights, and side marker lights. Automotive lamp coating does not include any coating operation performed on an assembled on-road vehicle.

Capture device means a hood, enclosure, room, floor sweep, or other means of containing or collecting emissions and directing those emissions into an add-on air pollution control device.

Capture efficiency or capture system efficiency means the portion (expressed as a percentage) of the pollutants from an emission source that is delivered to an add-on control device.

Capture system means one or more capture devices intended to collect emissions generated by a coating operation in the use of coatings or cleaning materials, both at the point of application and at subsequent points where emissions from the coatings and cleaning materials occur, such as flashoff, drying, or curing. As used in this subpart, multiple capture

devices that collect emissions generated by a coating operation are considered a single capture system.

Cleaning material means a solvent used to remove contaminants and other materials, such as dirt, grease, oil, and dried or wet coating (e.g., depainting), from a substrate before or after coating application or from equipment associated with a coating operation, such as spray booths, spray guns, racks, tanks, and hangers. Thus, it includes any cleaning material used on substrates or equipment or both.

Coating means a material applied to a substrate for decorative, protective, or functional purposes. Such materials include, but are not limited to, paints, sealants, liquid plastic coatings, caulks, inks, adhesives, and maskants. Decorative, protective, or functional materials that consist only of protective oils for metal, acids, bases, or any combination of these substances, or paper film or plastic film which may be pre-coated with an adhesive by the film manufacturer, are not considered coatings for the purposes of this subpart. A liquid plastic coating means a coating made from fine particle-size polyvinyl chloride (PVC) in solution (also referred to as a plastisol).

Coating operation means equipment used to apply cleaning materials to a substrate to prepare it for coating application (surface preparation) or to remove dried coating; to apply coating to a substrate (coating application) and to dry or cure the coating after application; or to clean coating operation equipment (equipment cleaning). A single coating operation may include any combination of these types of equipment, but always includes at least the point at which a given quantity of coating or cleaning material is applied to a given part and all subsequent points in the affected source where organic HAP are emitted from the specific quantity of coating or cleaning material on the specific part. There may be multiple coating operations in an affected source. Coating application with handheld, non-refillable aerosol containers, touch-up markers, or marking pens is not a coating operation for the purposes of this subpart.

Coatings solids means the nonvolatile portion of the coating that makes up the dry film.

Continuous parameter monitoring system (CPMS) means the total equipment that may be required to meet the data acquisition and availability requirements of this subpart, used to sample, condition (if applicable), analyze, and provide a record of coating operation, or capture system, or add-on control device parameters.

Controlled coating operation means a coating operation from which some or all of the organic HAP emissions are routed through an emission capture system and add-on control device.

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 or 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, or 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.

Emission limitation means the aggregate of all requirements associated with a compliance option including emission limit, operating limit, work practice standard, etc.

Enclosure means a structure that surrounds a source of emissions and captures and directs the emissions to an add-on control device.

Exempt compound means a specific compound that is not considered a VOC due to negligible photochemical reactivity. The exempt compounds are listed in 40 CFR 51.100(s).

Facility maintenance means the routine repair or renovation (including the surface coating) of the tools, equipment, machinery, and structures that comprise the infrastructure of the affected facility and that are necessary for the facility to function in its intended capacity.

General use coating means any coating operation that is not an automotive lamp, TPO, or assembled on-road vehicle coating operation.

Hobby shop means any surface coating operation, located at an affected source, that is used exclusively for personal, noncommercial purposes by the affected source’s employees or assigned personnel.

Manufacturer’s formulation data means data on a material (such as a coating) that are supplied by the material manufacturer based on knowledge of the ingredients used to manufacture that material, rather than based on testing of the material with the test methods specified in §63.4541. Manufacturer's formulation data may include, but are not limited to, information on density, organic HAP content, volatile organic matter content, and coating solids content.

Mass fraction of coating solids means the ratio of the mass of solids (also known as the mass of nonvolatiles) to the mass of a coating in which it is contained; kg of coating solids per kg of coating.

Mass fraction of organic HAP means the ratio of the mass of organic HAP to the mass of a material in which it is contained, expressed as kg of organic HAP per kg of material.

Month means a calendar month or a pre-specified period of 28 days to 35 days to allow for flexibility in recordkeeping when data are based on a business accounting period.

Non-HAP coating means, for the purposes of this subpart, a coating that contains no more than 0.1 percent by mass of any individual organic HAP that is an OSHA-defined carcinogen as specified in 29 CFR 1910.1200(d)(4) and no more than 1.0 percent by mass for any other individual HAP.

Organic HAP content means the mass of organic HAP emitted per mass of coating solids used for a coating calculated using Equation 1 of §63.4541. The organic HAP content is determined for the coating in the condition it is in when received from its manufacturer or supplier and does not account for any alteration after receipt. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, organic HAP content is the mass of organic HAP that is emitted, rather than the organic HAP content of the coating as it is received.

Permanent total enclosure (PTE) means a permanently installed enclosure that meets the criteria of Method 204 of appendix M, 40 CFR part 51, for a PTE and that directs all the exhaust gases from the enclosure to an add-on control device.

Personal watercraft means a vessel (boat) which uses an inboard motor powering a water jet pump as its primary source of motive power and which is designed to be operated by a person or persons sitting, standing, or kneeling on the vessel, rather than in the conventional manner of sitting or standing inside the vessel.

Plastic part and product means any piece or combination of pieces of which at least one has been formed from one or more resins. Such pieces may be solid, porous, flexible or rigid.

Protective oil means an organic material that is applied to metal for the purpose of providing lubrication or protection from corrosion without forming a solid film. This definition of protective oil includes, but is not limited to, lubricating oils, evaporative oils (including those that evaporate completely), and extrusion oils.

Reactive adhesive means adhesive systems composed, in part, of volatile monomers that react during the adhesive curing reaction, and, as a result, do not evolve from the film during use. These volatile components instead become integral parts of the adhesive through chemical reaction. At least 70 percent of the liquid components of the system, excluding water, react during the process.

Research or laboratory facility means a facility whose primary purpose is for research and development of new processes and products, that is conducted under the close supervision of technically trained personnel, and is not engaged in the manufacture of final or intermediate products for commercial purposes, except in a de minimis manner.

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

Startup, initial means the first time equipment is brought online in a facility.

Surface preparation means use of a cleaning material on a portion of or all of a substrate. This includes use of a cleaning material to remove dried coating, which is sometimes called depainting.

Temporary total enclosure means an enclosure constructed for the purpose of measuring the capture efficiency of pollutants emitted from a given source as defined in Method 204 of appendix M, 40 CFR part 51.

Thermoplastic olefin (TPO) means polyolefins (blends of polypropylene, polyethylene and its copolymers). This also includes blends of TPO with polypropylene and polypropylene alloys including, but not limited to, thermoplastic elastomer (TPE), TPE polyurethane (TPU), TPE polyester (TPEE), TPE polyamide (TPAE), and thermoplastic elastomer polyvinyl chloride (TPVC).

Thermoplastic olefin (TPO) coating means any coating operation in which the coatings are components of a system of coatings applied to a TPO substrate, including adhesion promoters, primers, color coatings, clear coatings and topcoats. Thermoplastic olefin coating does not include the coating of TPO substrates on assembled on-road vehicles.

Thinner means an organic solvent that is added to a coating after the coating is received from the supplier.

Total volatile hydrocarbon (TVH) means the total amount of nonaqueous volatile organic matter determined according to Methods 204 and 204A through 204F of appendix M to 40 CFR part 51 and substituting the term TVH each place in the methods where the term VOC is used. The TVH includes both VOC and non-VOC.

Uncontrolled coating operation means a coating operation from which none of the organic HAP emissions are routed through an emission capture system and add-on control device.

Volatile organic compound (VOC) means any compound defined as VOC in 40 CFR 51.100(s).

Wastewater means water that is generated in a coating operation and is collected, stored, or treated prior to being discarded or discharged.

Tables to Subpart PPPP of Part 63

If you are required to comply with operating limits by §63.4491(c), you must comply with the applicable operating limits in the following table:

Table 1 to Subpart PPPP of Part 63. Operating Limits if Using the Emission Rate with Add-On Controls Option

For the following device...	**you must meet the following operating limit...**	**and you must demonstrate continuous compliance with the operating limit by...**
1. thermal oxidizer	**a.** the average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to §63.4567(a).	**i.** collecting the combustion temperature data according to §63.4568(c); **ii.** reducing the data to 3-hour block averages; and **iii.** maintaining the 3-hour average combustion temperature at or above the temperature limit.

2. catalytic oxidizer	**a.** the average temperature measured just before the catalyst bed in any 3-hour period must not fall below the limit established according to §63.4567(b); and either	**i.** collecting the temperature data according to §63.4568(c); **ii.** reducing the data to 3-hour block averages; and **iii.** maintaining the 3-hour average temperature before the catalyst bed at or above the temperature limit.
	b. ensure that the average temperature difference across the catalyst bed in any 3-hour period does not fall below the temperature difference limit established according to §63.4567(b)(2); or	**i.** collecting the temperature data according to §63.4568(c); **ii.** reducing the data to 3-hour block averages; and **iii.** maintaining the 3-hour average temperature difference at or above the temperature difference limit.
	c. develop and implement an inspection and maintenance plan according to §63.4567(b)(4).	**i.** maintaining an up-to-date inspection and maintenance plan, records of annual catalyst activity checks, records of monthly inspections of the oxidizer system, and records of the annual internal inspections of the catalyst bed. If a problem is discovered during a monthly or annual inspection required by §63.4567(b)(4), you must take corrective action as soon as practicable consistent with the manufacturer's recommendations.

3. regenerative carbon adsorber	**a.** the total regeneration desorbing gas (e.g., steam or nitrogen) mass flow for each carbon bed regeneration cycle must not fall below the total regeneration desorbing gas mass flow limit established according to §63.4567(c); and	**i.** measuring the total regeneration desorbing gas (e.g., steam or nitrogen) mass flow for each regeneration cycle according to §63.4568(d); and **ii.** maintaining the total regeneration desorbing gas mass flow at or above the mass flow limit.
	b. the temperature of the carbon bed, after completing each regeneration and any cooling cycle, must not exceed the carbon bed temperature limit established according to §63.4567(c).	**i.** measuring the temperature of the carbon bed after completing each regeneration and any cooling cycle according to §63.4568(d); and **ii.** operating the carbon beds such that each carbon bed is not returned to service until completing each regeneration and any cooling cycle until the recorded temperature of the carbon bed is at or below the temperature limit.
4. condenser	**a.** the average condenser outlet (product side) gas temperature in any 3-hour period must not exceed the temperature limit established according to §63.4567(d).	**i.** collecting the condenser outlet (product side) gas temperature according to §63.4568(e); **ii.** reducing the data to 3-hour block averages; and **iii.** maintaining the 3-hour average gas temperature at the outlet at or below the temperature limit.

5. concen-trators, including zeolite wheels and rotary carbon adsorbers	**a.** the average gas temperature of the desorption concentrate stream in any 3-hour period must not fall below the limit established according to §63.4567(e); and	**i.** collecting the temperature data according to 63.4568(f); **ii.** reducing the data to 3-hour block averages; and **iii.** maintaining the 3-hour average temperature at or above the temperature limit.
	b. the average pressure drop of the dilute stream across the concentrator in any 3-hour period must not fall below the limit established according to §63.4567(e).	**i.** collecting the pressure drop data according to 63.4568(f); **ii.** reducing the pressure drop data to 3-hour block averages; and **iii.** maintaining the 3-hour average pressure drop at or above the pressure drop limit.
6. emission capture system that is a PTE according to §63.4565(a)	**a.** the direction of the air flow at all times must be into the enclosure; and either	**i.** collecting the direction of air flow, and either the facial velocity of air through all natural draft openings according to §63.4568(g)(1) or the pressure drop across the enclosure according to §63.4568(g)(2); and **ii.** maintaining the facial velocity of air flow through all natural draft openings or the pressure drop at or above the facial velocity limit or pressure drop limit, and maintaining the direction of air flow into the enclosure at all times.

	b. the average facial velocity of air through all natural draft openings in the enclosure must be at least 200 feet per minute; or	**i.** See items 6.a.i and 6.a.ii.
	c. the pressure drop across the enclosure must be at least 0.007 inch H_2O, as established in Method 204 of appendix M to 40 CFR part 51.	**i.** See items 6.a.i and 6.a.ii.
7. emission capture system that is not a PTE according to §63.4565(a)	**a.** the average gas volumetric flow rate or duct static pressure in each duct between a capture device and add-on control device inlet in any 3-hour period must not fall below the average volumetric flow rate or duct static pressure limit established for that capture device according to §63.4567(f).	**i.** collecting the gas volumetric flow rate or duct static pressure for each capture device according to §63.4568(g); **ii.** reducing the data to 3-hour block averages; and **iii.** maintaining the 3-hour average gas volumetric flow rate or duct static pressure for each capture device at or above the gas volumetric flow rate or duct static pressure limit.

You must comply with the applicable General Provisions requirements according to the following table:

Table 2 to Subpart PPPP of Part 63. Applicability of General Provisions to Subpart PPPP of Part 63

Citation	Subject	Applicable to Subpart PPPP	Explanation

§63.1(a)(1)-(14)	General Applicability	Yes	
§63.1(b)(1)-(3)	Initial Applicability Determination	Yes	Applicability to subpart PPPP is also specified in §63.4481.
§63.1(c)(1)	Applicability After Standard Established	Yes	
§63.1(c)(2)-(3)	Applicability of Permit Program for Area Sources	No	Area sources are not subject to subpart PPPP.
§63.1(c)(4)-(5)	Extensions and Notifications	Yes	
§63.1(e)	Applicability of Permit Program Before Relevant Standard is Set	Yes	
§63.2	Definitions	Yes	Additional definitions are specified in §63.4581.
§63.3(a)-(c)	Units and Abbreviations	Yes	
§63.4(a)(1)-(5)	Prohibited Activities	Yes	
§63.4(b)-(c)	Circumvention /Severability	Yes	
§63.5(a)	Construction/ Reconstruc-tion	Yes	

§63.5(b)(1)-(6)	Requirements for Existing, Newly Constructed, and Reconstructed Sources	Yes	
§63.5(d)	Application for Approval of Construction/ Reconstruction	Yes	
§63.5(e)	Approval of Construction/ Reconstruction	Yes	
§63.5(f)	Approval of Construction/ Reconstruction Based on Prior State Review	Yes	
§63.6(a)	Compliance With Standards and Maintenance Requirements - Applicability	Yes	
§63.6(b)(1)-(7)	Compliance Dates for New and Reconstructed Sources	Yes	Section 63.4483 specifies the compliance dates.
§63.6(c)(1)-(5)	Compliance Dates for Existing Sources	Yes	Section 63.4483 specifies the compliance dates.

§63.6(e)(1)-(2)	Operation and Maintenance	Yes	
§63.6(e)(3)	Startup, Shutdown, and Malfunction Plan	Yes	Only sources using an add-on control device to comply with the standard must complete startup, shutdown, and malfunction plans.
§63.6(f)(1)	Compliance Except During Startup, Shutdown, and Malfunction	Yes	Applies only to sources using an add-on control device to comply with the standard.
§63.6(f)(2)-(3)	Methods for Determining Compliance	Yes	
§63.6(g)(1)-(3)	Use of an Alternative Standard	Yes	
§63.6(h)	Compliance With Opacity/Visible Emission Standards	No	Subpart PPPP does not establish opacity standards and does not require continuous opacity monitoring systems (COMS).
§63.6(i)(1)-(16)	Extension of Compliance	Yes	
§63.6(j)	Presidential Compliance Exemption	Yes	

§63.7(a)(1)	Performance Test Require-ments - Ap-plicability	Yes	Applies to all affected sources. Additional requirements for performance testing are specified in §§63.4564, 63.4565, and 63.4566.
§63.7(a)(2)	Performance Test Requirements - Dates	Yes	Applies only to performance tests for capture system and control device efficiency at sources using these to comply with the standards. Section 63.4560 specifies the schedule for performance test require-ments that are earlier than those specified in §63.7(a)(2).
§63.7(a)(3)	Performance Tests Required By the Administrator	Yes	

§63.7(b)-(e)	Performance Test Requirements - Notification, Quality Assurance, Facilities Necessary for Safe Testing, Conditions During Test	Yes	Applies only to performance tests for capture system and add-on control device efficiency at sources using these to comply with the standards.
§63.7(f)	Performance Test Requirements - Use of Alternative Test Method	Yes	Applies to all test methods except those used to determine capture system efficiency.
§63.7(g)-(h)	Performance Test Requirements - Data Analysis, Recordkeeping, Reporting, Waiver of Test	Yes	Applies only to performance tests for capture system and add-on control device efficiency at sources using these to comply with the standards.
§63.8(a)(1)-(3)	Monitoring Requirements - Applicability	Yes	Applies only to monitoring of capture system and add-on control device efficiency at sources using these to comply with the standards. Additional requirements for monitoring are specified in §63.4568.

§63.8(a)(4)	Additional Monitoring Requirements	No	Subpart PPPP does not have monitoring requirements for flares.
§63.8(b)	Conduct of Monitoring	Yes	
§63.8(c)(1)-(3)	Continuous Monitoring Systems (CMS) Operation and Maintenance	Yes	Applies only to monitoring of capture system and add-on control device efficiency at sources using these to comply with the standard. Additional requirements for CMS operations and maintenance are specified in §63.4568.
§63.8(c)(4)	CMS	No	Section 63.4568 specifies the requirements for the operation of CMS for capture systems and add-on control devices at sources using these to comply.
§63.8(c)(5)	COMS	No	Subpart PPPP does not have opacity or visible emission standards.

§63.8(c)(6)	CMS Requirements	No	Section 63.4568 specifies the requirements for monitoring systems for capture systems and add-on control devices at sources using these to comply.
§63.8(c)(7)	CMS Out-of-Control Periods	Yes	
§63.8(c)(8)	CMS Out-of-Control Periods and Reporting	No	Section 63.4520 requires reporting of CMS out-of-control periods.
§63.8(d)-(e)	Quality Control Program and CMS Performance Evaluation	No	Subpart PPPP does not require the use of continuous emissions monitoring systems.
§63.8(f)(1)-(5)	Use of an Alternative Monitoring Method	Yes	
§63.8(f)(6)	Alternative to Relative Accuracy Test	No	Subpart PPPP does not require the use of continuous emissions monitoring systems.

§63.8(g)(1)-(5)	Data Reduction	No	Sections 63.4567 and 63.4568 specify monitoring data reduction.
§63.9(a)-(d)	Notification Requirements	Yes	
§63.9(e)	Notification of Performance Test	Yes	Applies only to capture system and add-on control device performance tests at sources using these to comply with the standards.
§63.9(f)	Notification of Visible Emissions/ Opacity Test	No	Subpart PPPP does not have opacity or visible emission standards.
§63.9(g)(1)-(3)	Additional Notifications When Using CMS	No	Subpart PPPP does not require the use of continuous emissions monitoring systems.
§63.9(h)	Notification of Compliance Status	Yes	Section 63.4510 specifies the dates for submitting the notification of compliance status.
§63.9(i)	Adjustment of Submittal Deadlines	Yes	

§63.9(j)	Change in Previous Information	Yes	
§63.10(a)	Recordkeeping / Reporting - Applicability and General Information	Yes	
§63.10(b)(1)	General Recordkeeping Requirements	Yes	Additional requirements are specified in §§63.4530 and 63.4531.
§63.10(b)(2)(i)-(v)	Recordkeeping Relevant to Startup, Shutdown, and Malfunction Periods and CMS	Yes	Requirements for startup, shutdown, and malfunction records only apply to add-on control devices used to comply with the standards.
§63.10(b)(2)(vi)-(xi)		Yes	
§63.10(b)(2)(xii)	Records	Yes	
§63.10(b)(2)(xiii)		No	Subpart PPPP does not require the use of continuous emissions monitoring systems.
§63.10(b)(2)(xiv)		Yes	
§63.10(b)(3)	Recordkeeping Requirements for Applicability Determinations	Yes	

§63.10(c)(1)-(6)	Additional Recordkeeping Requirements for Sources with CMS	Yes	
§63.10(c)(7)-(8)		No	The same records are required in §63.4520(a)(7).
§63.10(c)(9)-(15)		Yes	
§63.10(d)(1)	General Reporting Requirements	Yes	Additional requirements are specified in §63.4520.
§63.10(d)(2)	Report of Performance Test Results	Yes	Additional requirements are specified in §63.4520(b).
§63.10(d)(3)	Reporting Opacity or Visible Emissions Observations	No	Subpart PPPP does not require opacity or visible emissions observations.
§63.10(d)(4)	Progress Reports for Sources With Compliance Extensions	Yes	
§63.10(d)(5)	Startup, Shutdown, and Malfunction Reports	Yes	Applies only to add-on control devices at sources using these to comply with the standards.

§63.10(e)(1)-(2)	Additional CMS Reports	No	Subpart PPPP does not require the use of continuous emissions monitoring systems.
§63.10(e)(3)	Excess Emissions/CMS Performance Reports	No	Section 63.4520(b) specifies the contents of periodic compliance reports.
§63.10(e)(4)	COMS Data Reports	No	Subpart PPPP does not specify requirements for opacity or COMS.
§63.10(f)	Recordkeeping / Reporting Waiver	Yes	
§63.11	Control Device Requirements/ Flares	No	Subpart PPPP does not specify use of flares for compliance.
§63.12	State Authority and Delegations	Yes	
§63.13	Addresses	Yes	
§63.14	Incorporation by Reference	Yes	
§63.15	Availability of Information/ Confidential-ity	Yes	

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data and which match either the solvent blend name or the chemical abstract series (CAS) number. If a solvent blend matches both the name and CAS number for an entry, that entry's organic HAP mass fraction must be used for that solvent blend. Otherwise, use the organic HAP mass fraction for the entry matching either the solvent blend name or CAS number, or use the organic HAP mass fraction from table 4 to this subpart if neither the name or CAS number match.

Table 3 to Subpart PPPP of Part 63. Default Organic HAP Mass Fraction for Solvents and Solvent Blends

Solvent/Solvent blend	CAS. No.	Average Organic HAP Mass Fraction	Typical Organic HAP, Percent by Mass
1. Toluene	108-88-3	1.0	Toluene
2. Xylene(s)	1330-20-7	1.0	Xylenes, ethylbenzene
3. Hexane	110-54-3	0.5	n-hexane
4. n-Hexane	110-54-3	1.0	n-hexane
5. Ethylbenzene	100-41-4	1.0	Ethylbenzene
6. Aliphatic 140		0	None
7. Aromatic 100		0.02	1% xylene, 1% cumene
8. Aromatic 150		0.09	Naphthalene
9. Aromatic naphtha	64742-95-6	0.02	1% xylene, 1% cumene
10. Aromatic solvent	64742-94-5	0.1	Naphthalene
11. Exempt mineral spirits	8032-32-4	0	None
12. Ligroines (VM & P)	8032-32-4	0	None
13. Lactol spirits	64742-89-6	0.15	Toluene
14. Low aromatic white spirit	64742-82-1	0	None
15. Mineral spirits	64742-88-7	0.01	Xylenes

16. Hydrotreated naphtha	64742-48-9	0	None
17. Hydrotreated light distillate	64742-47-8	0.001	Toluene
18. Stoddard solvent	8052-41-3	0.01	Xylenes
19. Super high-flash naphtha	64742-95-6	0.05	Xylenes
20. Varsol® solvent	8052-49-3	0.01	0.5% xylenes, 0.5% ethylbenzene
21. VM & P naphtha	64742-89-8	0.06	3% toluene, 3% xylene
22. Petroleum distillate mixture	68477-31-6	0.08	4% naphthalene, 4% biphenyl

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data.

Table 4 to Subpart PPPP of Part 63. Default Organic HAP Mass Fraction for Petroleum Solvent Groups[a]

Solvent Type	Average Organic HAP Mass Fraction	Typical Organic HAP, Percent by Mass
Aliphatic[b]	0.03	1% Xylene, 1% Toluene, and 1% Ethylbenzene
Aromatic[c]	0.06	4% Xylene, 1% Toluene, and 1% Ethylbenzene

[a] Use this table only if the solvent blend does not match any of the solvent blends in Table 3 to this subpart by either solvent blend name or CAS number and you only know whether the blend is aliphatic or aromatic.
[b] Mineral Spirits 135, Mineral Spirits 150 EC, Naphtha, Mixed Hydrocarbon, Aliphatic Hydrocarbon, Aliphatic Naphtha, Naphthol Spirits, Petroleum Spirits, Petroleum Oil, Petroleum Naphtha, Solvent Naphtha, Solvent Blend.
[c] Medium-flash Naphtha, High-flash Naphtha, Aromatic Naphtha, Light Aromatic Naphtha, Light Aromatic Hydrocarbons, Aromatic Hydrocarbons, Light Aromatic Solvent.

Appendix A to Subpart PPPP of Part 63--Determination of Weight Volatile Matter Content and Weight Solids Content of Reactive Adhesives

1.0 Applicability and Principle

1.1 Applicability: This method applies to the determination of weight volatile matter content and weight solids content for most one-part or multiple-part reactive adhesives. Reactive adhesives are composed, in large part, of monomers that react during the adhesive curing reaction, and, as a result, do not volatilize. The monomers become integral parts of the cured adhesive through chemical reaction. At least 70 weight percent of the system, excluding water and non-volatile solids such as fillers, react during the process. This method is not appropriate for cyanoacrylates. For cyanoacrylates, South Coast Air Quality Management District Test Method 316B should be used. This method is not appropriate for one-part moisture cure urethane adhesives or for silicone adhesives. For one-part moisture cure urethane adhesives and for silicone adhesives, EPA Method 24 should be used.

1.2 Principle: One-part and multiple-part reactive adhesives undergo a reactive conversion from liquid to solid during the application and assembly process. Reactive adhesives are applied to a single surface, but then are usually quickly covered with another mating surface to achieve a bonded assembly. The monomers employed in such systems typically react and are converted to non-volatile solids. If left uncovered, as in a Method 24 (ASTM D2369) test, the reaction is inhibited by the presence of oxygen and volatile loss of the reactive components competes more heavily with the cure reaction. If this were to happen under normal use conditions, the

adhesives would not provide adequate performance. This method minimizes this undesirable deterioration of the adhesive performance.

2.0 Materials and Apparatus

2.1 Aluminum foil, aluminum sheet, non-leaching plastic film or non-leaching plastic sheet, approximately 3 inches by 3 inches. Precondition the foil, film, or sheet for 30 minutes in an oven at 110 ± 5 degrees Celsius and store in a desiccator prior to use. Use tongs or rubber gloves or both to handle the foil, film, or sheet.

2.2 Flat, rigid support panels slightly larger than the foil, film, or sheet. Polypropylene with a minimum thickness of 1/8 inch is recommended for the support panels. Precondition the support panels for 30 minutes in an oven at 110 ± 5 degrees Celsius and store in a desiccator prior to use. Use tongs or rubber gloves or both to handle the support panels.

2.3 Aluminum spacers, 1/8 inch thick. Precondition the spacers for 30 minutes in an oven at 110 ± 5 degrees Celsius and store in a desiccator prior to use. Use tongs or rubber gloves or both to handle the spacers.

2.4 Forced draft oven, type IIA or IIB as specified in ASTM E145-94 (Reapproved 2001), “Standard Specification for Gravity-Convection and Forced-Ventilation Ovens” (incorporated by reference, see §63.14).

2.5 Electronic balance capable of weighing to ±0.0001 grams (0.1 mg).

2.6 Flat bottom weight (approximately 3 lbs) or clamps.

Material and Apparatus Notes

1 - The foil, film, or sheet should be thick or rigid enough so that it can be easily handled in the test procedure.

3.0 Procedure

3.1 Two procedures are provided. In Procedure A the initial specimen weight is determined by weighing the foil, film, or sheet before and after the specimen is dispensed onto the foil, film, or sheet. In Procedure B the initial specimen weight is determined by weighing the adhesive cartridge (kit) before and after the specimen is dispensed.

3.2 At least four test specimens should be run for each test material. Run the test at room temperature, 74 degrees Fahrenheit (23 degrees Celsius).

Procedure A

1. Zero electronic balance.
2. Place 2 pieces of aluminum foil (or aluminum sheet, plastic film, or plastic sheet) on scale.
3. Record weight of aluminum foils. (A).
4. Tare balance.
5. Remove top piece of aluminum foil.
6. Dispense a 10 to 15 gram specimen of premixed adhesive onto bottom piece of aluminum foil. Place second piece of aluminum foil on top of the adhesive specimen to make a sandwich.
7. Record weight of sandwich (specimen and aluminum foils). (B).
8. Remove sandwich from scale, place sandwich between two support panels with aluminum spacers at the edges of the support panels to make a supported sandwich. The spacers provide a standard gap. Take care to mate the edges.

9. Place the supported sandwich on a flat surface.
10. Place the weight on top of the supported sandwich to spread the adhesive specimen to a uniform thickness within the sandwich. Check that no adhesive squeezes out from between the pieces of aluminum foil or through tears in the aluminum foil.
11. Allow to cure 24 hours.
12. Remove the sandwich from between the support panels. Record the weight of the sandwich. This is referred to as the 24 hr weight. (C).
13. Bake sandwich at 110 degrees Celsius for 1 hour.
14. Remove sandwich from the oven, place immediately in a desiccator, and cool to room temperature. Record post bake sandwich weight. (D).

Procedure B

1. Zero electronic balance.
2. Place two pieces of aluminum foil (or aluminum sheet, plastic film, or plastic sheet) on scale.
3. Record weight of aluminum foils. (A).
4. Tare balance.
5. Place one support panel on flat surface. Place first piece of aluminum foil on top of this support panel.
6. Record the weight of a pre-mixed sample of adhesive in its container. If dispensing the adhesive from a cartridge (kit), record the weight of the cartridge (kit) plus any dispensing tips. (F).

7. Dispense a 10 to 15 gram specimen of mixed adhesive onto the first piece of aluminum foil. Place second piece of aluminum foil on top of the adhesive specimen to make a sandwich.
8. Record weight of the adhesive container. If dispensing the adhesive from a cartridge (kit), record the weight of the cartridge (kit) plus any dispensing tips. (G).
9. Place the aluminum spacers at the edges of the bottom support panel polypropylene sheet. The spacers provide a standard gap.
10. Place the second support panel on top of the assembly to make a supported sandwich. Take care to mate the edges.
11. Place the supported sandwich on a flat surface.
12. Place the weight on top of the supported sandwich to spread the adhesive specimen to a uniform thickness within the sandwich. Check that no adhesive squeezes out from between the pieces of aluminum foil or through tears in the aluminum foil.
13. Allow to cure 24 hours.
14. Remove the sandwich from between the support panels. Record the weight of the sandwich. This is referred to as the 24 hr weight. (C).
15. Bake sandwich at 110 degrees Celsius for 1 hour.
16. Remove sandwich from the oven, place immediately in a desiccator, and cool to room temperature.
17. Record post-bake sandwich weight. (D).

Procedural Notes

1 - The support panels may be omitted if the aluminum foil (or aluminum sheet, plastic film, or plastic sheet) will not tear and the adhesive specimen will spread to a uniform thickness within the sandwich when the flat weight is placed directly on top of the sandwich.

2 - Clamps may be used instead of a flat bottom weight to spread the adhesive specimen to a uniform thickness within the sandwich.

3 - When dispensing from a static mixer, purging is necessary to ensure uniform, homogeneous specimens. The weighing in Procedure B, Step 6 must be performed after any purging.

4 - Follow the adhesive manufacturer's directions for mixing and for dispensing from a cartridge (kit).

4.0 Calculations

4.1 The total weight loss from curing and baking of each specimen is used to determine the weight percent volatile matter content of that specimen

Procedure A

Weight of original specimen (S) = (B) - (A)

Weight of post-bake specimen (P) = (D) - (A)

Total Weight Loss (L) = (S) - (P)

Procedure B

Weight of original specimen (S) = (F) - (G)

Weight of post-bake specimen (P) = (D) - (A)

Total Weight Loss (L) = (S) - (P)

Procedure A and Procedure B

Weight Percent Volatile Matter Content

(V) = [(Total weight loss)/(Initial specimen weight)] x 100

= [(L)/(S)] x 100

4.2 The weight volatile matter content of a material is the average of the weight volatile matter content of each specimen of that material. For example, if four specimens of a material were tested, then the weight percent volatile matter content for that material is:

V = [V1 + V2 + V3 + V4]/4

Where:

Vi = the weight percent volatile matter content of specimen i of the material.

4.3 The weight percent solids content of the material is calculated from the weight percent volatile content of the material.

Weight Percent Solids Content (N) = 100 – (V)

Calculation Notes

1 - The weight loss during curing and the weight loss during baking may be calculated separately. These values may be useful for identifying sources of variation in the results obtained for different specimens of the same material.

2 - For both Procedure A and Procedure B, the weight loss during curing is (S) – [(C) – (A)] and the weight loss during baking is (C) – (D).

7. The permittee shall maintain compliance with the applicable requirements of 40 CFR Part 63, Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation as specified below.

Subpart GGGGG--National Emission Standards for Hazardous Air Pollutants: Site Remediation

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What this Subpart Covers

§63.7880 What is the purpose of this subpart?

This subpart establishes national emissions limitations and work practice standards for hazardous air pollutants (HAP) emitted from site remediation activities. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emissions limitations and work practice standards.

§63.7881 Am I subject to this subpart?

(a) This subpart applies to you if you own or operate a facility at which you conduct a site remediation, as defined in §63.7957; and this site remediation, unless exempted under paragraph (b) or (c) of this section, meets all three of the following conditions specified in paragraphs (a)(1) through (3) of this section.

(1) Your site remediation cleans up a remediation material, as defined in §63.7957.

(2) Your site remediation is co-located at your facility with one or more other stationary sources that emit HAP and meet an affected source definition specified for a source category that is regulated by another subpart under 40 CFR part 63. This condition applies regardless whether or not the affected stationary source(s) at your facility is subject to the standards under the applicable subpart(s).

(3) Your facility is a major source of HAP as defined in §63.2. A major source emits or has the potential to emit any single HAP at the rate of 10 tons (9.07 megagrams) or more per year of any HAP or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year. All emissions of HAP from every source at your facility (i.e., both the site remediation activity and all other facility activities) must be considered in making this calculation.

(b) You are not subject to this subpart if your site remediation qualifies for any of one of the exemptions listed in paragraphs (b)(1) through (6) of this section.

(1) Your site remediation is not subject to this subpart if the site remediation only cleans up material that does not contain any of the HAP listed in Table 1 of this subpart.

(2) Your site remediation is not subject to this subpart if the site remediation will be performed under the authority of the Comprehensive Environmental Response and Compensation Liability Act (CERCLA) as a remedial action or a non time-critical removal action.

(3) Your site remediation is not subject to this subpart if the site remediation will be performed under a Resource Conservation and Recovery Act (RCRA) corrective action conducted at a treatment, storage and disposal facility (TSDF) that is either required by your permit issued by either the U.S. Environmental Protection Agency (EPA) or a State program authorized by the EPA under RCRA section 3006; required by orders authorized under RCRA; or required by orders authorized under RCRA section 7003.

(4) Your site remediation is not subject to this subpart if the site remediation is conducted at a gasoline service station to clean up remediation material from a leaking underground storage tank.

(5) Your site remediation is not subject to this subpart if the site remediation is conducted at a farm or residential site.

(6) Your site remediation is not subject to this subpart if the site remediation is conducted at a research and development facility that meets the requirements under Clean Air Act (CAA) section 112(c)(7).

(c) Your site remediation is not subject to this subpart, except for the recordkeeping requirements specified in this paragraph, if the site remediation meets the all of the conditions in paragraphs (c)(1) through (3) of this section.

(1) Before beginning the site remediation, you determine for the remediation material that you will excavate, extract, pump, or otherwise remove during your site remediation that the total quantity of the HAP listed in Table 1 of this subpart which is contained in the material is less than 1 megagram per year (Mg/yr).

(2) You prepare and maintain at your facility written documentation to support your determination of the total HAP quantity used to demonstrate compliance with paragraph (c)(1) of this section. This documentation must include a description of your methodology and data you used for determining the total HAP content of the material.

(3) This exemption may be applied to more than one site remediation at your facility provided that the total quantity of the HAP listed in Table 1 of this subpart for all of your site remediations exempted under this provision is less than 1 Mg/yr.

(d) Your site remediation is not subject to the requirements of this subpart if all remediation activities at your facility subject to this subpart are completed and you have notified the Administrator in writing that all remediation activities subject to this subpart are completed. You must maintain records of compliance, in accordance with §63.7953, for each remediation activity that was subject to this subpart. All future

remediation activity meeting the applicability criteria in this section must comply with the requirements of this subpart.

§63.7882 What site remediation sources at my facility does this subpart affect?

(a) This subpart applies to each new, reconstructed, or existing affected source for your site remediation as designated by paragraphs (a)(1) through (3) of this section.

(1) Process vents. The affected source is the entire group of process vents associated with the in-situ and ex-situ remediation processes used at your site to remove, destroy, degrade, transform, or immobilize hazardous substances in the remediation material subject to remediation. Examples of such in-situ remediation processes include, but are not limited to, soil vapor extraction and bioremediation processes. Examples of such ex-situ remediation processes include but are not limited to, thermal desorption, bioremediation, and air stripping processes.

(2) Remediation material management units. Remediation material management unit means a tank, surface impoundment, container, oil-water separator, organic-water separator, or transfer system, as defined in §63.7957, and is used at your site to manage remediation material. The affected source is the entire group of remediation material management units used for the site remediations at your site. For the purpose of this subpart, a tank or container that is also equipped with a vent that serves as a process vent, as defined in §63.7957, is not a remediation material

management unit, but instead this unit is considered to be a process vent affected source under paragraph (a)(1) of this section.

(3) Equipment leaks. The affected source is the entire group of equipment components (pumps, valves, etc.) used to manage remediation materials and meeting both of the conditions specified in paragraphs (a)(3)(i) and (ii) of this section. If either of these conditions do not apply to an equipment component, then that component is not part of the affected source for equipment leaks.

(i) The equipment component contains or contacts remediation material having a concentration of total HAP listed in Table 1 of this subpart equal to or greater than 10 percent by weight.

(ii) The equipment component is intended to operate for 300 hours or more during a calendar year in remediation material service, as defined in §63.7957.

(b) Each affected source for your site is existing if you commenced construction or reconstruction of the affected source before July 30, 2002.

(c) Each affected source for your site is new if you commenced construction or reconstruction of the affected source on or after July 30, 2002. An affected source is reconstructed if it meets the definition of reconstruction in §63.2.

§63.7883 When do I have to comply with this subpart?

(a) If you have an existing affected source, you must comply with each emission limitation, work practice standard, and operation and maintenance requirement in this subpart that applies to you no later than

[INSERT DATE 3 YEARS AFTER DATE OF PUBLICATION OF THE FINAL RULE IN THE FEDERAL REGISTER].

(b) If you have a new affected source that manages remediation material other than a radioactive mixed waste as defined in §63.7957, then you must meet the compliance date specified in paragraph (b)(1) or (2) of this section, as applicable to your affected source.

(1) If the affected source's initial startup date is on or before [INSERT DATE OF PUBLICATION OF THE FINAL RULE IN THE FEDERAL REGISTER], you must comply with each emission limitation, work practice standard, and operation and maintenance requirement in this subpart that applies to you by [INSERT DATE OF PUBLICATION OF THE FINAL RULE IN THE FEDERAL REGISTER].

(2) If the affected source's initial startup date is after [INSERT DATE OF PUBLICATION OF THE FINAL RULE IN THE FEDERAL REGISTER], you must comply with each emission limitation, work practice standard, and operation and maintenance requirement in this subpart that applies to you upon initial startup.

(c) If you have a new affected source that manages remediation material that is a radioactive mixed waste as defined in §63.7957, then you must meet the compliance date specified in paragraph (c)(1) or (2) of this section, as applicable to your affected source.

(1) If the affected source's initial startup date is on or before [INSERT DATE OF PUBLICATION OF THE FINAL RULE IN THE FEDERAL REGISTER], you must comply with each emission limitation, work practice standard, and operation and maintenance requirement in this subpart that applies to you

no later than [INSERT DATE 3 YEARS AFTER DATE OF PUBLICATION OF THE FINAL RULE IN THE FEDERAL REGISTER].

(2) If the affected source's initial startup date is after [INSERT DATE OF PUBLICATION OF THE FINAL RULE IN THE FEDERAL REGISTER], you must comply with each emission limitation, work practice standard, and operation and maintenance requirement in this subpart that applies to you upon initial startup.

(d) If your facility is an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP as defined in §63.2, then you must meet the compliance dates specified in paragraphs (d)(1) and (2) of this section.

(1) For each source at your facility that is a new affected source subject to this subpart, you must comply with each emission limitation, work practice standard, and operation and maintenance requirement in this subpart that applies to you upon initial startup.

(2) For all other affected sources subject to this subpart, you must comply with each emission limitation, work practice standard, and operation and maintenance requirement in this subpart that applies to you no later than 3 years after your facility becomes a major source.

(e) You must meet the notification requirements, according to the schedule applicable to your facility, as specified in §63.7950 and in 40 CFR part 63, subpart A. Some of the notifications must be submitted before you are required to comply with the emissions limitations and work practice standards in this subpart.

General Standards

§63.7884 What are the general standards I must meet for each site remediation with affected sources?

(a) For each site remediation with affected sources designated under §63.7882, you must meet the standards specified in §§63.7885 through 63.7953, as applicable to your affected sources, unless your site remediation meets the requirements for an exemption under paragraph (b) of this section.

(b) A site remediation that is completed within 30 consecutive calendar days according to the conditions in paragraphs (b)(1) and (2) of this section is not subject to the standards under paragraph (a) of this section. This exemption cannot be used for a site remediation involving the staged or intermittent cleanup of remediation material whereby the remediation activities at the site are started, stopped, and then re-started in a series of intervals with durations less than 30-days per interval for which the total time of all of the intervals required to complete the site remediation exceeds a total of 30 days.

(1) The 30-day period for a site remediation is determined from the first day that any action is initiated that removes, destroys, degrades, transforms, immobilizes, or otherwise manages the remediation materials. The end of a site remediation is determined by the last day on which treatment or disposal of the remediation materials from the cleanup is completed. The following activities, when completed before beginning this initial action, are not counted as part of the 30-day period: activities

to characterize the type and extent of the contamination by collecting and analyzing samples, activities to obtain permits from Federal, State, or local authorities to conduct the site remediation, activities to schedule workers and necessary equipment, and activities to arrange for contractor or third party assistance in performing the site remediation.

(2) You must prepare and maintain at your facility written documentation describing the exempted site remediation, and listing the initiation and completion dates for the site remediation.

<u>§63.7885 What are the general standards I must meet for my affected process vents?</u>

(a) For the process vents that comprise the affected source designated under §63.7882, you must select and meet the requirements under one of the options specified in paragraph (b) of this section.

(b) For each affected process vent, except as exempted under paragraph (c) of this section, you must meet one of the options in paragraphs (b)(1) through (3) of this section.

(1) You control HAP emissions from the affected process vents according to the standards specified in §§63.7890 through 63.7893.

(2) You determine for the remediation material treated or managed by the process vented through the affected process vents that the average total volatile organic hazardous air pollutant (VOHAP) concentration, as defined in §63.7957, of this material is less than 10 parts per million by weight (ppmw). Determination of the VOHAP concentration is made using the procedures specified in §63.7943.

(3) If the process vent is also subject to another subpart under 40 CFR part 61 or 40 CFR part 63, you control emissions of the HAP listed in Table 1 of this subpart from the affected process vent in compliance with the standards specified in the applicable subpart. This means you are complying with all applicable emissions limitations and work practice standards under the other subpart (e.g., you install and operate the required air pollution controls or have implemented the required work practice to reduce HAP emissions to levels specified by the applicable subpart). This provision does not apply to any exemption of the affected source from the emissions limitations and work practice standards allowed by the other applicable subpart.

(c) A process vent that meets the exemption requirements in paragraphs (c)(1) and (2) of this section is exempted from the requirements in paragraph (b) of this section.

(1) The process vent stream exiting the process vent meets the conditions in either paragraph (c)(1)(i) or (ii) of this section.

(i) The process vent stream flow rate is less than 0.005 cubic meters per minute (m^3/min) at standard conditions (as defined in 40 CFR 63.2); or

(ii) The process vent stream flow rate is less than 6.0 m^3/min at standard conditions (as defined in 40 CFR 63.2) and the total concentration of HAP listed in Table 1 of this subpart is less than 20 parts per million by volume (ppmv).

(2) You must demonstrate that the process vent stream meets the applicable exemption conditions in paragraph (c)(1) of this section using

the procedures specified in §63.694(m). You must prepare and maintain documentation at your facility to support your determination of the process vent stream flow rate. This documentation must include identification of each process vent exempted under this paragraph and the test results used to determine the process vent stream flow rate and total HAP concentration, as applicable to the exemption conditions for your process vent. You must perform a new determination of the process vent stream flow rate and total HAP concentration, as applicable to the exemption conditions for your process vent, whenever changes to operation of the unit on which the process vent is used could cause the process vent stream conditions to exceed the maximum limits of the exemption.

<u>§63.7886 What are the general standards I must meet for my affected remediation material management units?</u>

(a) For each remediation material management unit that is part of an affected source designated by §63.7882, you must select and meet the requirements under one of the options specified in paragraph (b) of this section except for those remediation material management units exempted under paragraph (c) or (d) of this section.

(b) For each affected remediation material management unit, you must meet one of the options in paragraphs (b)(1) through (4) of this section.

(1) You control HAP emissions from the affected remediation material management unit according to the standards specified in paragraphs (b)(1)(i) through (v) of this section, as applicable to the unit.

(i) If the remediation material management unit is a tank, then you control HAP emissions according to the standards specified in §§63.7895 through 63.7898.

(ii) If the remediation material management unit is a container, then you control HAP emissions according to the standards specified in §§63.7900 through 63.7903.

(iii) If the remediation material management unit is a surface impoundment, then you control HAP emissions according to the standards specified in §§63.7905 through 63.7908.

(iv) If the remediation material management unit is a oil-water or organic-water separator, then you control HAP emissions according to the standards specified in §§63.7910 through 63.7913.

(v) If the remediation material management unit is a transfer system, then you control HAP emissions according to the standards specified in §§63.7915 through 63.7918.

(2) You determine for the remediation material placed in the remediation material management unit that the average total VOHAP concentration, as defined in §63.7957, of this material is less than 500 ppmw. Determination of the total VOHAP concentration is made based on the remediation material composition at the point-of-extraction, as defined in §63.7957, using the procedures specified in §63.7943.

(3) If the remediation material management unit is also subject to another subpart under 40 CFR part 61 or 40 CFR part 63, you control emissions of the HAP listed in Table 1 of this subpart from the affected

remediation material management unit in compliance with the standards specified in the applicable subpart. This means you are complying with all applicable emissions limitations and work practice standards under the other subpart (e.g., you install and operate the required air pollution controls or have implemented the required work practice to reduce HAP emissions to levels specified by the applicable subpart). This provision does not apply to any exemption of the affected source from the emissions limitations and work practice standards allowed by the other applicable subpart.

(4) If the remediation material management unit is an open tank or surface impoundment used for a biological treatment process, you meet the requirements as specified in paragraphs (b)(4)(i) and (ii) of this section.

(i) You demonstrate that the biological treatment process conducted in the open tank or surface impoundment meets the performance levels specified in either §63.684(b)(4)(i) or (ii).

(ii) You monitor the biological treatment process conducted in the open tank or surface impoundment according to the requirements in §63.684(e)(4).

(c) A remediation material management unit is exempted from the requirements in paragraph (b) of this section if this unit is used for cleanup of radioactive mixed waste, as defined in §63.7957, that is subject to applicable regulations, directives, and other requirements under the Atomic Energy Act, the Nuclear Waste Policy Act, or the Waste Isolation Pilot Plant Land Withdrawal Act.

(d) One or a combination of remediation material management units may be exempted at your discretion from the requirements in paragraph (b) of this section provided that the total annual quantity of HAP listed in Table 1 of this subpart contained in the remediation material placed in all of the remediation material management units exempted under this paragraph is less than 1 Mg/yr. For each remediation material management unit you select to be exempted under this provision, you must meet the requirements in paragraphs (d)(1) and (2) of this section.

(1) You must designate each of the remediation material management units you are selecting to be exempted under this paragraph by either submitting to the Administrator a written notification identifying the exempt units or permanently marking the exempt units at the faculty site. If you choose to prepare and submit a written notification, this notification must include a site plan, process diagram, or other appropriate documentation identifying each of the exempt units. If you choose to permanently mark the exempt units, each exempt unit must be marked in such a manner that it can be readily identified as an exempt unit from the other remediation material management units located at the site.

(2) You must prepare an initial determination of the total annual HAP quantity in the remediation material placed in the units exempted under this paragraph. This determination is based on the total quantity of the HAP listed in Table 1 of this subpart as determined at the point where the remediation material is placed in each exempted unit. You must perform a new determination whenever the extent of changes to the quantity or

composition of the remediation material placed in the exempted units could cause the total annual HAP content in the remediation material to exceed 1 Mg/yr. You must maintain documentation to support the most recent determination of the total annual HAP quantity. This documentation must include the basis and data used for determining the organic HAP content of the remediation material.

§63.7887 What are the general standards I must meet for my affected equipment leak sources?

You must control HAP emissions from equipment leaks from each equipment component that is part of the affected source specified in §63.7882 by implementing leak detection and control measures according to the standards specified in §§63.7920 through 63.7922.

§63.7888 How do I implement this rule at my facility using the cross-referenced requirements in other subparts?

(a) For the purposes of this subpart, when you read the term "HAP listed in Table 1 of this subpart" in a cross-referenced section under 40 CFR part 63, subpart DD--National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations, you should refer to Table 1 of this subpart.

(b) For the purposes of this subpart, when you read the term off-site material in a cross-referenced section under 40 CFR part 63, subpart DD--National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations you should substitute the term remediation material, as defined in §63.7957.

(c) For the purposes of this subpart, when you read the term regulated material in a cross-referenced section under 40 CFR part 63, subparts OO, PP, QQ, RR, TT, UU, WW, and VV you should substitute the term remediation material, as defined in §63.7957.

Process Vents

<u>§63.7890 What emissions limitations and work practice standards must I meet for process vents</u>?

(a) You must control HAP emissions from each new and existing process vent subject to §63.7885(b)(1) according to emissions limitations and work practice standards in this section that apply to your affected process vents.

(b) For your affected process vents, you must meet one of the facility-wide emission limit options specified in paragraphs (b)(1) through (4) of this section. If you have multiple affected process vent streams, you may comply with this paragraph using a combination of controlled and uncontrolled process vent streams that achieve the facility-wide emission limit that applies to you.

(1) Reduce from all affected process vents the total emissions of the HAP listed in Table 1 of this subpart to a level less than 1.4 kilograms per hour (kg/hr) and 2.8 Mg/yr (3.0 pounds per hour (lb/hr) and 3.1 tpy); or

(2) Reduce from all affected process vents the emissions of total organic carbon (TOC) (minus methane and ethane) to a level below 1.4 kg/hr and 2.8 Mg/yr (3.0 lb/hr and 3.1 tpy); or

(3) Reduce from all affected process vents the total emissions of the HAP listed in Table 1 of this subpart by 95 percent by weight or more; or

(4) Reduce from all affected process vents the emissions of TOC (minus methane and ethane) by 95 percent by weight or more.

(c) For each closed vent system and control device you use to comply with paragraph (b) of this section, you must meet the operating limit requirements and work practice standards in §63.7925(c) through (j) that apply to your closed vent system and control device.

<u>§63.7891 How do I demonstrate initial compliance with the emissions limitations and work practice standards for process vents</u>?

(a) You must demonstrate initial compliance with the emissions limitations and work practice standards in §63.7890(b) applicable to your affected process vents by meeting the requirements in paragraphs (b) through (d) of this section.

(b) You have measured or determined using the procedures for performance tests and design evaluations in §63.7941 that emission levels from all of your affected process vents meet the facility-wide emission limits in §63.7890(b) that apply to you, as follows in paragraphs (b)(1) through (4) of this section.

(1) If you elect to meet §63.7890(b)(1), you demonstrate that the total emissions of the HAP listed in Table 1 of this subpart from all affected process vents at your facility are less than 1.4 kg/hr and 2.8 Mg/yr (3.0 lb/hr and 3.1 tpy).

(2) If you elect to meet §63.7890(b)(2), you demonstrate that emissions of TOC (minus methane and ethane) from all affected process vents at your facility are less than 1.4 kg/hr and 2.8 Mg/yr (3.0 lb/hr and 3.1 tpy).

(3) If you elect to meet §63.7890(b)(3), you demonstrate that the total emissions of the HAP listed in Table 1 of this subpart from all affected process vents are reduced by 95 percent by weight or more.

(4) If you elect to meet §63.7890(b)(4), you demonstrate that the emissions of TOC (minus methane and ethane) from all affected process vents are reduced by 95 percent by weight or more.

(c) For each closed vent system and control device you use to comply with §63.7890(b), you have met each requirement for demonstrating initial compliance with the emission limitations and work practice standards for a closed vent system and control device in §63.7926.

(d) You have submitted a notification of compliance status according to the requirements in §63.7950.

<u>§63.7892 What are my inspection and monitoring requirements for process vents</u>?

For each closed vent system and control device you use to comply with §63.7890(b), you must monitor and inspect the closed vent system and control device according to the requirements in §63.7927 that apply to you.

<u>§63.7893 How do I demonstrate continuous compliance with the emissions limitations and work practice standards for process vents</u>?

(a) You must demonstrate continuous compliance with the emissions limitations and work practice standards in §63.7890 applicable to your affected process vents by meeting the requirements in paragraphs (b) through (d) of this section.

(b) You must maintain emission levels from all of your affected process vents to meet the facility-wide emission limits in §63.7890(b) that apply to you, as specified in the following paragraph (b)(1) through (4) of this section.

(1) If you elect to meet §63.7890(b)(1), you maintain the total emissions of the HAP listed in Table 1 of this subpart from all affected process vents at your facility are less than 1.4 kg/hr and 2.8 Mg/yr (3.0 lb/hr and 3.1 tpy).

(2) If you elect to meet §63.7890(b)(2), you maintain emissions of TOC (minus methane and ethane) from all affected process vents at your facility are less than 1.4 kg/hr and 2.8 Mg/yr (3.0 lb/hr and 3.1 tpy).

(3) If you elect to meet §63.7890(b)(3), you maintain the total emissions of the HAP listed in Table 1 of this subpart from all affected process vents are reduced by 95 percent by weight or more.

(4) If you elect to meet §63.7890(b)(4), you maintain that the emissions of TOC (minus methane and ethane) from all affected process vents are reduced by 95 percent by weight or more.

(c) For each closed vent system and control device you use to comply with §63.7890(b), you have met each requirement for demonstrating

continuous compliance with the emission limitations and work practice standards for a closed vent system and control device in §63.7928.

(d) Keeping records to document continuous compliance with the requirements of this subpart according to the requirements in §63.7952.

Tanks

<u>§63.7895 What emissions limitations and work practice standards must I meet for tanks</u>?

(a) You must control HAP emissions from each new and existing tank subject to §63.7886(b)(1)(i) according to emissions limitations and work practice standards in this section that apply to your affected tanks.

(b) For each affected tank, you must install and operate air pollution controls that meet the requirements in paragraphs (b)(1) through (4) of this section that apply to your tank.

(1) Unless your tank is used for a waste stabilization process, as defined in §63.7957, you must determine the maximum HAP vapor pressure (expressed in kilopascals (kPa)) of the remediation material placed in your tank using the procedures specified in §63.7944.

(2) If the maximum HAP vapor pressure of the remediation material you place in your tank is less than 76.6 kPa, then you must determine which tank level controls (i.e., Tank Level 1 or Tank Level 2) apply to your tank as shown in Table 2 of this subpart, and based on your tank's design capacity (expressed in cubic meters (m^3)) and the maximum HAP vapor pressure of the remediation material you place in this tank. If your tank is required by Table 2 of this subpart to use Tank Level 1 controls, then

you must meet the requirements in paragraph (c) of this section. If your tank is required by Table 2 of this subpart to use Tank Level 2 controls, then you must meet the requirements in paragraph (d) of this section

(3) If maximum HAP vapor pressure of the remediation material you place in your tank is 76.6 kPa or greater, then the tank must use one of the Tank Level 2 controls specified in paragraphs (d)(3) through (5) of this section. Use of floating roofs under paragraph (d)(1) or (2) of this section is not allowed for tanks managing these remediation materials.

(4) A tank used for a waste stabilization process, as defined in §63.7957, must use one of Tank Level 2 controls, as specified in paragraph (d) of this section, that is appropriate for your waste stabilization process.

(c) If you use Tank Level 1 controls, you must install and operate a fixed roof according to the requirements in §63.902. As an alternative to using this fixed roof, you may choose to use one of Tank Level 2 controls in paragraph (d) of this section.

(d) If you use Tank Level 2 controls, you must meet the requirements of one of the options in paragraphs (d)(1) through (5) of this section.

(1) Install and operate a fixed roof with an internal floating roof according to the requirements in §63.1063(a)(1)(i), (a)(2), and (b); or

(2) Install and operate an external floating roof according to the requirements in §63.1063(a)(1)(ii), (a)(2), and (b); or

(3) Install and operate a fixed roof vented through a closed vent system to a control device according to the requirements in §63.685(g).

You must meet the emissions limitations and work practice standards in §63.7925 that apply to your closed vent system and control device; or

(4) Install and operate a pressure tank according to the requirements in §63.685(h); or

(5) Locate the tank inside a permanent total enclosure and vent emissions from the enclosure through a closed vent system to a control device that is an enclosed combustion device according to the requirements in §63.685(i). You must meet the emissions limitations and work practice standards in §63.7925 that apply to your closed vent system and control device.

(e) As provided in §63.6(g), you may request approval from the EPA to use an alternative to the work practice standards in this section that apply to your tanks. If you request for permission to use an alternative to the work practice standards, you must submit the information described in §63.6(g)(2).

<u>§63.7896 How do I demonstrate initial compliance with the emissions limitations and work practice standards for tanks</u>?

(a) You must demonstrate initial compliance with the emissions limitations and work practice standards in §63.7895 that apply to your affected tanks by meeting the requirements in paragraphs (b) through (h) of this section, as applicable to your containers.

(b) You have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (b)(1) and (2) of this section.

(1) You have determined the applicable tank control levels specified in §63.7895(b) for the tanks to be used for your site remediation.

(2) You have determined, according to the procedures §63.7944, and recorded the maximum HAP vapor pressure of the remediation material placed in each affected tank subject to $63.7886(b)(1)(i) that does not used Tank Level 2 controls.

(c) You must demonstrate initial compliance of each tank determined under paragraph (b) of this section to require Tank Level 1 controls if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (c)(1) through (3) of this section.

(1) Each tank using Tank Level 1 controls is equipped with a fixed roof and closure devices according to the requirements in §63.902(b) and (c) and you have records documenting the design.

(2) You have performed an initial visual inspection of the fixed roof and closure devices for defects according to the requirements in §63.906(a) and you have records documenting the inspection results.

(3) You will operate the fixed roof and closure devices according to the requirements in §63.902.

(d) You must demonstrate initial compliance of each tank determined under paragraph (b) of this section to require Tank Level 2 controls and using a fixed roof with an internal floating roof according to §63.7895(d)(1) if you have submitted as part of your notification of

compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (d)(1) through (3) of this section.

(1) Each tank is equipped with an internal floating roof that meets the requirements in §63.1063(a) and you have records documenting the design.

(2) You will operate the internal floating roof according to the requirements in §63.1063(b).

(3) You have performed an initial visual inspection according to the requirements in §63.1063(d)(1) and you have a record of the inspection results.

(e) You must demonstrate initial compliance of each tank determined under paragraph (b) of this section to require Tank Level 2 controls and using an external floating roof according to §63.7895(d)(2) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (e)(1) through (3) of this section.

(1) Each tank is equipped with an external floating roof that meets the requirements in §63.1063(a) and you have records documenting the design.

(2) You will operate the external floating roof according to the requirements in §63.1063(b).

(3) You have performed an initial seal gap measurement inspection according to the requirements in §63.1063(d)(3) and you have records of the measurement results.

(f) You must demonstrate initial compliance of each tank determined under paragraph (b) of this section to require Tank Level 2 controls and using a fixed roof vented to a control device according to §63.7895(d)(3) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (f)(1) through (4) of this section.

(1) Each tank is equipped with a fixed roof and closure devices according to the requirements in §63.902(b) and (c) and you have records documenting the design.

(2) You have performed an initial visual inspection of fixed roof and closure devices for defects according to the requirements in §63.695(b)(3) and you have records documenting the inspection results.

(3) You will operate the fixed roof and closure devices according to the requirements in §63.685(g).

(4) You have met each applicable requirement for demonstrating initial compliance with the emission limitations and work practice standards for a closed vent system and control device in §63.7926.

(g) You must demonstrate initial compliance of each tank determined under paragraph (b) of this section to require Tank Level 2 controls and operates as a pressure tank according to §63.7895(d)(4) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (g)(1) and (2) of this section.

(1) Each tank is designed to operate as a pressure tank according to the requirements in §63.685(h), and you have records documenting the design.

(2) You will operate the pressure tank and according to the requirements in §63.685(h).

(h) You must demonstrate initial compliance of each tank determined under paragraph (b) of this section to require Tank Level 2 controls and using a permanent total enclosure vented to an enclosed combustion device according to §63.7895(d)(5) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (h)(1) and (2) of this section.

(1) You have submitted as part of your notification of compliance status a signed statement that you have performed the verification procedure according to the requirements in §63.685(i), and you have records of the supporting calculations and measurements.

(2) You have met each applicable requirement for demonstrating initial compliance with the emission limitations and work practice standards for a closed vent system and control device in §63.7926.

<u>§63.7897 What are my inspection and monitoring requirements for tanks</u>?

(a) You must visually inspect each of your tanks using Tank Level 1 controls for defects at least annually according to the requirements in §63.906(a).

(b) You must inspect and monitor each of your tanks using Tank Level 2 controls according to the requirements in paragraphs (b)(1) through (5), as applicable to your tanks.

(1) If you use a fixed roof with an internal floating roof according to §63.7895(d)(1), you must visually inspect the fixed roof and internal floating roof according to the requirements in §63.1063(d)(1) and (2).

(2) If you use an external floating roof according to §63.7895(d)(2), you must visually inspect the external floating roof according to the requirements in §63.1063(d)(1) and inspect the seals according the requirements in §63.1063(d)(2) and (3).

(3) If you use a fixed roof vented to a control device according to §63.7895(d)(3), you must meet requirements in paragraphs (b)(3)(i) and (ii) of this section.

(i) You must visually inspect the fixed roof and closure devices for defects according to the requirements in §63.695(b)(3).

(ii) You must monitor and inspect the closed vent system and control device according to the requirements in §63.7927 that apply to you.

(4) If you use a pressure tank according to §63.7895(d)(4), you must visually inspect the tank and its closure devices for defects at least annually to ensure they are operating according to the design requirements in §63.685(h).

(5) If you use a permanent total enclosure vented to an enclosed combustion device according to §63.7895(d)(5), you must meet requirements in paragraphs (b)(5)(i) and (ii) of this section.

(i) You must perform the verification procedure for the permanent total enclosure at least annually according to the requirements in §63.685(i).

(ii) You must monitor and inspect the closed vent system and control device according to the requirements in §63.7927 that apply to you.

<u>§63.7898 How do I demonstrate continuous compliance with the emissions limitations and work practice standards for tanks</u>?

(a) You must demonstrate continuous compliance with the emissions limitations and work practice standards in §63.7895 applicable to your affected tanks by meeting the requirements in paragraphs (b) through (d) of this section.

(b) You must demonstrate continuous compliance with the requirement to determine the applicable tank control level specified in §63.7895(b) for each affected tank by meeting the requirements in paragraphs (b)(1) through (3) of this section.

(1) Keeping records of the tank design capacity according to the requirements in §63.1065(a).

(2) For tanks subject to §63.7886(b)(1)(ii) and not using Tank Level 2 controls, meeting the requirements in paragraphs (b)(2)(i) and (ii) of this section.

(i) Keeping records of the maximum HAP vapor pressure determined according to the procedures in §63.7944 for the remediation material placed in each affected tank.

(ii) Performing a new determination of the maximum HAP vapor pressure whenever changes to the remediation material managed in the tank could potentially cause the maximum HAP vapor pressure to increase to a level that is equal to or greater than the maximum HAP vapor pressure for the tank design capacity specified in Table 2. You must keep records of each determination.

(3) Keeping records to document compliance with the requirements of this subpart according to the requirements in §63.7952.

(c) You must demonstrate continuous compliance for each tank determined to require Tank Level 1 controls by meeting the requirements in paragraphs (c)(1) through (5) of this section.

(1) Operating and maintaining the fixed roof and closure devices according to the requirements in §63.902(c).

(2) Visually inspecting the fixed roof and closure devices for defects at least annually according to the requirements in §63.906(a).

(3) Repairing defects according to the requirements in §63.63.906(b).

(4) Recording the information specified in §63.907(a)(3) and (b).

(5) Keeping records to document compliance with the requirements of this subpart according to the requirements in §63.7952.

(d) You must demonstrate continuous compliance for each tank determined to require Tank Level 2 controls and using a fixed roof with an internal floating roof according to §63.7895(d)(1) by meeting the requirements in paragraphs (d)(1) through (5) of this section.

(1) Operating and maintaining the internal floating roof according to the requirements in §63.1063(b).

(2) Visually inspecting the internal floating roof according to the requirements in §63.1063(d)(1) and (2).

(3) Repairing defects according to the requirements in §63.1063(e).

(4) Recording the information specified in §63.1065(b) through (d).

(5) Keeping records to document compliance with the requirements of this subpart according to the requirements in §63.7952.

(e) You must demonstrate continuous compliance for each tank determined to require Tank Level 2 controls and using an external floating roof according to §63.7895(d)(2) by meeting the requirements in paragraphs (e)(1) through (5) of this section.

(1) Operating and maintaining the external floating roof according to the requirements in §63.1063(b).

(2) Visually inspecting the external floating roof according to the requirements in §63.1063(d)(1) and inspecting the seals according the requirements in §63.1063(d)(2) and (3).

(3) Repairing defects according to the requirements in §63.1063(e).

(4) Recording the information specified in §63.1065(b) through (d).

(5) Keeping records to document compliance with the requirements of this subpart according to the requirements in §63.7952.

(f) You must demonstrate continuous compliance for each tank determined to require Tank Level 2 controls and using a fixed roof vented

to a control device according to §63.7895(d)(3) by meeting the requirements in paragraphs (f)(1) through (6) of this section.

(1) Operating and maintaining the fixed roof and closure devices according to the requirements in §63.685(g).

(2) Visually inspecting the fixed roof and closure devices for defects at least annually according to the requirements in §63.695(b)(3)(i).

(3) Repairing defects according to the requirements in §63.695(b)(4).

(4) Recording the information specified in §63.696(e).

(5) Meeting each applicable requirement for demonstrating continuous compliance with the emission limitations and work practice standards for a closed vent system and control device in §63.7928.

(6) Keeping records to document compliance with the requirements of this subpart according to the requirements in §63.7952.

(g) You must demonstrate continuous compliance for each tank determined to require Tank Level 2 controls and operated as a pressure tank according to §63.7895(d)(4) by meeting the requirements in paragraphs (g)(1) through (3) of this section.

(1) Operating and maintaining the pressure tank and closure devices according to the requirements in §63.685(h).

(2) Visually inspecting each pressurized tank and closure devices for defects at least annually to ensure they are operating according to the design requirements in §63.685(h), and recording the results of each inspection.

(3) Keeping records to document compliance with the requirements of this subpart according to the requirements in §63.7952.

(h) You must demonstrate continuous compliance for each tank determined to require Tank Level 2 controls and using a permanent total enclosure vented to an enclosed combustion device according to §63.7895(d)(5) by meeting the requirements in paragraphs (h)(1) through (4) of this section.

(1) Performing the verification procedure for the enclosure annually according to the requirements in §63.685(i).

(2) Recording the information specified in §63.696(f).

(3) Meeting each applicable requirement for demonstrating continuous compliance with the emissions limitations and work practice standards for a closed vent system and control device in §63.7928.

(4) Keeping records to document compliance with the requirements of this subpart according to the requirements in §63.7952.

Containers

<u>§63.7900 What emissions limitations and work practice standards must I meet for containers</u>?

(a) You must control HAP emissions from each new and existing container subject to §63.7886(b)(1)(ii) according to emissions limitations and work practice standards in this section that apply to your affected containers.

(b) For each container having a design capacity greater than 0.1 m^3 you must meet the requirements in paragraph (b)(1) or (2) of this section

that apply to your container except at the times the container is used for treatment of remediation material by a waste stabilization process, as defined in § 63.7957. As an alternative for any container subject to this paragraph, you may choose to meet the requirements in paragraph (d) of this section.

(1) If the design capacity of your container is less than or equal to 0.46 m^3, then you must use controls according to the standards for Container Level 1 controls as specified in §63.922. As an alternative, you may choose to use controls according to either the standards for Container Level 2 controls as specified in §63.923.

(2) If the design capacity of your container is greater than 0.46 m^3, then you must use controls according to the standards for Container Level 2 controls as specified in §63.923 except as provided for in paragraphs (3) and (4) of this section.

(3) As an alternative to meeting the standards in paragraph (2) of this section for containers with a capacity greater than 0.46 m^3, if you determine that either of the conditions in paragraphs (b)(3)(i) or (ii) apply to the remediation material placed in your container, then you may use controls according to the standards for Container Level 1 controls as specified in §63.922.

(i) Vapor pressure of every organic constituent in the remediation material placed in your container is less than 0.3 kPa at 20EC; or

(ii) Total concentration of the pure organic constituents having a vapor pressure greater than 0.3 kPa at 20EC in the remediation material placed in your container is less than 20 percent by weight.

(c) At times when a container having a design capacity greater than 0.1 m^3 is used for treatment of an remediation material by a waste stabilization process as defined in § 63.7957, you must control air emissions from the container during the process whenever the remediation material in the container is exposed to the atmosphere according to the standards for Container Level 3 controls as specified in §63.924. You must meet the emissions limitations and work practice standards in §63.7925 that apply to your closed vent system and control device.

(d) As an alternative to meeting the requirements in paragraph (b) of this section, you may choose to use controls on your container according to the standards for Container Level 3 controls as specified in §63.924. You must meet the emissions limitations and work practice standards in §63.7925 that apply to your closed vent system and control device.

(e) As provided in §63.6(g), you may request approval from the EPA to use an alternative to the work practice standards in this section that apply to your containers. If you request for permission to use an alternative to the work practice standards, you must submit the information described in §63.6(g)(2).

<u>§63.7901 How do I demonstrate initial compliance with the emissions limitations and work practice standards for containers</u>?

(a) You must demonstrate initial compliance with the emissions limitations and work practice standards in §63.7990 that apply to your affected containers by meeting the requirements in paragraphs (b) through (e) of this section, as applicable to your containers.

(b) You have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (b)(1) and (2) of this section.

(1) You have determined the applicable container control levels specified in §63.7990 for the containers to be used for your site remediation.

(2) You have determined and recorded the maximum vapor pressure or total organic concentration for the remediation material placed in containers with a design capacity greater than 0.46 m^3, and do not used Container Level 2 or Level 3 controls.

(c) You must demonstrate initial compliance of each container determined under paragraph (b) of this section to require Container Level 1 controls if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (c)(1) and (2) of this section.

(1) Each container using Container Level 1 controls will be one of the containers specified in §63.922(b).

(2) You will operate each container cover and closure device according to the requirements in §63.922(d).

(d) You must demonstrate initial compliance of each container determined under paragraph (b) of this section to require Container Level 2 controls if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (d)(1) through (4) of this section.

(1) Each container using Container Level 2 controls will be one of the containers specified in §63.923(b).

(2) You will transfer remediation materials into and out of each container according to the procedures in §63.923(d).

(3) You will operate and maintain the container covers and closure devices according to the requirements in §63.923(d).

(4) You have records that the container meets the applicable U.S. Department of Transportation regulations, or you have conducted an initial test of each container for no detectable organic emissions using the procedures in §63.925(a), and have records documenting the test results, or you have demonstrated within the last 12 months that each container is vapor-tight according to the procedures in §63.925(a) and have records documenting the test results.

(e) You must demonstrate initial compliance of each container determined under paragraph (b) of this section to require Container Level 3 controls if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (e)(1) and (2) of this section.

(1) For each permanent total enclosure you use to comply with §63.7900, you have performed the verification procedure according to the requirements in §63.924(c)(1), and prepare records of the supporting calculations and measurements.

(2) You have met each applicable requirement for demonstrating initial compliance with the emission limitations and work practice standards for a closed vent system and control device in §63.7926.

<u>§63.7902 What are my inspection and monitoring requirements for containers</u>?

(a) You must inspect each container using Container Level 1 or Container Level 2 controls according to the requirements in §63.926(a).

(b) If you use Container Level 3 controls, you must meet requirements in paragraphs (b)(1) and (2) of this section, as applicable to your site remediation.

(1) You must perform the verification procedure for each permanent total enclosure annually according to the requirements in §63.924(c)(1).

(2) You must monitor and inspect each closed vent system and control device according to the requirements in §63.7927 that apply to you.

<u>§63.7903 How do I demonstrate continuous compliance with the emissions limitations and work practice standards for containers</u>?

(a) You must demonstrate continuous compliance with the emissions limitations and work practice standards in §63.7990 applicable to your affected containers by meeting the requirements in paragraphs (b) through (e) of this section.

(b) You must demonstrate continuous compliance with the requirement to determine the applicable container control level specified in §63.7990(b) for each affected tank by meeting the requirements in paragraphs (b)(1) through (3) of this section.

(1) Keeping records of the quantity and design capacity for each type of container used for your site remediation and subject to §63.7886(b)(1)(ii).

(2) For containers subject to §63.7886(b)(1)(ii) with a design capacity greater than 0.46 m^3 and not using Container Level 2 or Container Level 3 controls, meeting the requirements in paragraphs (b)(2)(i) and (ii) of this section.

(i) Keeping records of the maximum vapor pressure or total organic concentration for the remediation material placed in the containers, as applicable to the conditions in §63.7900(b)(3)(i) or (ii) for which your containers qualify to use Container Level 1 controls.

(ii) Performing a new determination whenever changes to the remediation material placed in the containers could potentially cause the maximum vapor pressure or total organic concentration to increase to a level that is equal to or greater than the conditions specified in §63.7900(b)(3)(i) or (ii), as applicable to your containers. You must keep records of each determination.

(3) Keeping records to document compliance with the requirements according to the requirements in §63.7952.

(c) You must demonstrate continuous compliance for each container determined to require Container Level 1 controls by meeting the requirements in paragraphs (c)(1) through (5) of this section.

(1) Operating and maintaining covers for each container according to the requirements in §63.922(d) .

(2) Inspecting each container annually according to the requirements in §63.926(a)(2).

(3) Emptying or repairing each container according to the requirements in §63.926(a)(3).

(4) Keeping records of an inspection that includes the information in paragraphs (a)(4)(i) and (ii) of this section.

(i) Date of each inspection; and

(ii) If a defect is detected during and inspection, the location of the defect, a description of the defect, the date of detection, the corrective action taken to repair the defect, and if repair is delayed, the reason for any delay and the date completion of the repair is expected.

(5) Keeping records to document compliance with the requirements according to the requirements in §63.7952.

(d) You must demonstrate continuous compliance for each container determined to require Container Level 2 controls by meeting the requirements in paragraphs (d)(1) through (6) of this section.

(1) Transferring remediation material in and out of the container according to the requirements in §63.923(c).

(2) Operating and maintaining container covers according to the requirements in §63.923(d).

(3) Inspecting each container annually according to the requirements in §63.926(a)(2).

(4) Emptying or repairing containers according to the requirements in §63.926(a)(3).

(5) Keeping records of each inspection that include the information in paragraphs (d)(5)(i) and (ii) of this section.

(i) Date of each inspection; and

(ii) If a defect is detected during and inspection, the location of the defect, a description of the defect, the date of detection, the corrective action taken to repair the defect, and if repair is delayed, the reason for any delay and the date completion of the repair is expected.

(6) Keeping records to document compliance with the requirements of this subpart according to the requirements in §63.7952.

(e) You must demonstrate continuous compliance for each container determined to require Container Level 3 controls by meeting the requirements in paragraphs (e)(1) through (4) of this section.

(1) Performing the verification procedure for the enclosure annually according to the requirements in §63.685(i).

(2) Recording the information specified in §63.696(f).

(3) Meeting each applicable requirement for demonstrating continuous compliance with the emissions limitations and work practice standards for a closed vent system and control device in §63.7928.

(4) Keeping records to document compliance with the requirements of this subpart according to the requirements in §63.7952.

Surface Impoundments

§63.7905 What emissions limitations or work practice standards must I meet for surface impoundments?

(a) You must control HAP emissions from each new and existing surface impoundment subject to §63.7886(b)(1)(iii) according to emissions limitations and work practice standards in this section that apply to your affected surface impoundments.

(b) For each affected surface impoundment, you must install and operate air pollution controls that meet either of the options in paragraphs (b)(1) or (2) of this section.

(1) Install and operate a floating membrane cover according to the requirements in §63.942; or

(2) Install and operate a cover vented through a closed vent system to a control device according to the requirements in §63.943. You must meet the emissions limitations and work practice standards in §63.7925 that apply to your closed vent system and control device.

(c) As provided in §63.6(g), you may request approval from the EPA to use an alternative to the work practice standards in this section that apply to your surface impoundments. If you request for permission to use an alternative to the work practice standards, you must submit the information described in §63.6(g)(2).

§63.7906 How do I demonstrate initial compliance with the emissions limitations or work practice standards for surface impoundments?

(a) You must demonstrate initial compliance with the emissions limitations and work practice standards in §63.7905 that apply to your affected surface impoundments by meeting the requirements in paragraphs (b) and (c) of this section, as applicable to your surface impoundments.

(b) You must demonstrate initial compliance of each surface impoundment using a floating membrane cover according to §63.7905(b)(1) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (b)(1) through (3) of this section.

(1) You have installed a floating membrane cover and closure devices that meet the requirements in §63.942(b), and you have records documenting the design and installation.

(2) You will operate the cover and closure devices according to the requirements in §63.942(c).

(3) You have performed an initial visual inspection of each surface impoundment and closure devices according to the requirements in §63.946(a), and you have records documenting the inspection results.

(c) You must demonstrate initial compliance of each surface impoundment using a cover vented to a control device according to §63.7905(b)(2) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (c)(1) through (4) of this section.

(1) You have installed a cover and closure devices that meet the requirements in §63.943(b), and have records documenting the design and installation.

(2) You will operate the cover and closure devices according to the requirements in §63.943(c).

(3) You have performed an initial visual inspection of each cover and closure devices according to the requirements in §63.946(b), and have records documenting the inspection results.

(4) You have met each applicable requirement for demonstrating initial compliance with the emission limitations and work practice standards for a closed vent system and control device in §63.7926.

<u>§63.7907 What are my inspection and monitoring requirements for surface impoundments</u>?

(a) If you use a floating membrane cover according to §63.7905(b)(1), you must visually inspect the floating membrane cover and its closure devices at least annually according to the requirements in §63.946(a).

(b) If you use a cover vented to a control device according to §63.7905(b)(2), you must meet requirements in paragraphs (b)(1) and (2) of this section.

(1) You must visually inspect the cover and its closure devices for defects according to the requirements in §63.946(b).

(2) You must monitor and inspect the closed vent system and control device according to the requirements in §63.7927 that apply to you.

§63.7908 How do I demonstrate continuous compliance with the emissions limitations and work practice standards for surface impoundments?

(a) You must demonstrate continuous compliance with the emissions limitations and work practice standards in §63.7905 applicable to your affected surface impoundments by meeting the requirements in paragraphs (b) and (c) of this section as applicable to your surface impoundments.

(b) You must demonstrate continuous compliance for each surface impoundment using a floating membrane cover according to §63.7905(b)(1) by meeting the requirements in paragraphs (b)(1) through (5) of this section.

(1) Operating and maintaining the floating membrane cover and closure devices according to the requirements in §63.942(c).

(2) Visually inspecting the floating membrane cover and closure devices for defects at least annually according to the requirements in §63.946(a).

(3) Repairing defects according to the requirements in §63.946(c).

(4) Recording the information specified in §63.947(a)(2) and (a)(3).

(5) Keeping records to document compliance with the requirements according to the requirements in §63.7952.

(c) You must demonstrate continuous compliance for each surface impoundment using a cover vented to a control device according to §63.7905(b)(2) by meeting the requirements in paragraphs (c)(1) through (6) of this section.

(1) Operating and maintaining the cover and its closure devices according to the requirements in §63.943(c).

(2) Visually inspecting the cover and its closure devices for defects at least annually according to the requirements in §63.946(b).

(3) Repairing defects according to the requirements in §63.946(c).

(4) Recording the information specified in §63.947(a)(2) and (a)(3).

(5) Meeting each applicable requirement for demonstrating continuous compliance with the emission limitations and work practice standards for a closed vent system and control device in §63.7928.

(6) Keeping records to document compliance with the requirements according to the requirements in §63.7952.

Separators

<u>§63.7910 What emissions limitations and work practice standards must I meet for separators</u>?

(a) You must control HAP emissions from each new and existing oil-water separator and organic-water separator subject to §63.7886(b)(1)(iv) according to emissions limitations and work practice standards in this section that apply to your affected separators.

(b) For each affected separator, you must install and operate air pollution controls that meet one of the options in paragraphs (b)(1) through (3) of this section.

(1) Install and operate a floating roof according to the requirements in §63.1043. For portions of the separator where it is infeasible to install and operate a floating roof, such as over a weir mechanism, you must comply with the requirements specified in paragraph (b)(2) of this section.

(2) Install and operate a fixed roof vented through a closed vent system to a control device according to the requirements in §63.1044. You must meet the emissions limitations and work practice standards in §63.7925 that apply to your closed vent system and control device.

(3) Install and operate a pressurized separator according to the requirements in §63.1045.

(c) As provided in §63.6(g), you may request approval from the EPA to use an alternative to the work practice standards in this section that apply to your separators. If you request for permission to use an alternative to the work practice standards, you must submit the information described in §63.6(g)(2).

<u>§63.7911 How do I demonstrate initial compliance with the emissions limitations and work practice standards for separators</u>?

(a) You must demonstrate initial compliance with the emissions limitations and work practice standards in §63.7910 that apply to your affected separators by meeting the requirements in paragraphs (b) through (d) of this section, as applicable to your separators.

(b) You must demonstrate initial compliance of each separator using a floating roof according to §63.7910(b)(1) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (b)(1) through (4) of this section.

(1) You have installed a floating roof and closure devices that meet the requirements in §63.1043(b), and you have records documenting the design and installation.

(2) You will operate the floating roof and closure devices according to the requirements in §63.1043(c).

(3) You have performed an initial seal gap measurement inspection using the procedures in §63.1046(b), and you have records documenting the measurement results.

(4) You have performed an initial visual inspection of the floating roof and closure devices for defects according to the requirements in §63.1047(b)(2), and you have records documenting the inspection results.

(5) For any portions of the separator using a fixed roof vented to a control device according to §63.7910(b)(1), you have met the requirements in paragraphs (c)(1) through (4) of this section.

(c) You must demonstrate initial compliance of each separator using a fixed roof vented to a control device according to §63.7910(b)(2) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (c)(1) through (4) of this section.

(1) You have installed a fixed roof and closure devices that meet the requirements in §63.1042(b), and you have records documenting the design and installation.

(2) You will operate the fixed roof and its closure devices according to the requirements in §63.1042(c).

(3) You have performed an initial visual inspection of the fixed roof and closure devices for defects according to the requirements in §63.1047(a).

(4) You have met each applicable requirement for demonstrating initial compliance with the emission limitations and work practice standards for a closed vent system and control device in §63.7926.

(d) You must demonstrate initial compliance of each pressurized separator that operates as a closed system according to §63.7910(b)(3) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (d)(1) and (2) of this section.

(1) You have installed a pressurized separator that operates as a closed system according to the requirements in §63.1045(b)(1) and (b)(2), and you have records of the design and installation.

(2) You will operate the pressurized separator as a closed system according to the requirements in §63.1045(b)(3).

<u>§63.7912 What are my inspection and monitoring requirements for separators</u>?

(a) If you use a floating roof according to §63.7910(b)(1), you must meet requirements in paragraphs (a)(1) and (2) of this section.

(1) Measure the seal gaps at least annually according to the requirements in §63.1047(b)(1).

(2) Visually inspect the floating roof at least annually according to the requirements in §63.1047(b)(2).

(b) If you use a cover vented to a control device according to §63.7910(b)(1) or (2), you must meet requirements in paragraphs (b)(1) and (2) of this section.

(1) You must visually inspect the cover and its closure devices for defects according to the requirements in §63.1047(c).

(2) You must monitor and inspect the closed vent system and control device according to the requirements in §63.7927 that apply to you.

(c) If you use a pressurized separator that operates as a closed system according to §63.7910(b)(3), you must visually inspect each pressurized separator and closure devices for defects at least annually to ensure they are operating according to the design requirements in §63.1045(b).

<u>§63.7913 How do I demonstrate continuous compliance with the emissions limitations and work practice standards for separators</u>?

(a) You must demonstrate continuous compliance with the emissions limitations and work practice standards in §63.7910 applicable to your affected separators by meeting the requirements in paragraphs (b) through (d) of this section as applicable to your surface impoundments.

(b) You must demonstrate continuous compliance for each separator using a floating roof according to §63.7910(b)(1) by meeting the requirements in paragraphs (b)(1) through (6) of this section.

(1) Operating and maintaining the floating roof according to the requirements in §63.1043(b).

(2) Performing seal gap measurement inspections at least annually according to the requirements in §63.1047(b)(1).

(3) Visually inspecting the floating roof at least annually according to the requirements in §63.1047(b)(2).

(4) Repairing defects according to the requirements in §63.1047(d).

(5) Recording the information specified in §63.1048(a) and (b).

(6) Keeping records to document compliance with the requirements according to the requirements in §63.7952.

(c) You must demonstrate continuous compliance for each separator using a cover vented to a control device according to §63.7905(b)(1) or (2) by meeting the requirements in paragraphs (c)(1) through (6) of this section.

(1) Operating and maintaining the fixed roof and its closure devices according to the requirements in §63.1042.

(2) Performing visual inspections of the fixed roof and its closure devices for defects at least annually according to the requirements in §63.1047(a).

(3) Repairing defects according to the requirements in §63.1047(d).

(4) Recording the information specified in §63.1048(a).

(5) Meeting each applicable requirement for demonstrating continuous compliance with the emission limitations and work practice standards for a closed vent system and control device in §63.7928.

(6) Keeping records to document compliance with the requirements of this subpart according to the requirements in §63.7952.

(d) You must demonstrate continuous compliance for each pressurized separator operated as a closed system according to §63.7910(b)(3) by meeting the requirements in paragraphs (d)(1) and (2) of this section.

(1) Operating the pressurized separator at all times according to the requirements in §63.1045.

(2) Visually inspecting each pressurized tank and closure devices for defects at least annually to ensure they are operating according to the design requirements in §63.1045(b), and recording the results of each inspection.

Transfer Systems

<u>§63.7915 What emissions limitations and work practice standards must I meet for transfer systems?</u>

(a) You must control HAP emissions from each new and existing transfer system subject to §63.7886(b)(1)(v) according to emissions limitations and work practice standards in this section that apply to your affected transfer systems.

(b) For each affected transfer system that is an individual drain system as defined in §63.7957, you must install and operate controls according to the requirements in §63.962.

(c) For each affected transfer system that is not an individual drain system as defined in §63.7957, you must use one of the transfer systems specified in paragraphs (c)(1) through (3) of this section.

(1) A transfer system that uses covers according to the requirements in §63.689(d).

(2) A transfer system that consists of continuous hard-piping. All joints or seams between the pipe sections shall be permanently or semi-permanently sealed (e.g., a welded joint between two sections of metal pipe or a bolted and gasketed flange).

(3) A transfer system that is enclosed and vented through a closed vent system to a control device according to the requirements specified in paragraphs (c)(3)(i) and (ii) of this section.

(i) The transfer system is designed and operated such that an internal pressure in the vapor headspace in the enclosure is maintained at a level less than atmospheric pressure when the control device is operating, and

(ii) The closed vent system and control device are designed and operated to meet the emissions limitations and work practice standards in §63.7925 that apply to your closed vent system and control device.

(d) As provided in §63.6(g), you may request approval from the EPA to use an alternative to the work practice standards in this section that apply to your transfer systems. If you request for permission to use an alternative to the work practice standards, you must submit the information described in §63.6(g)(2).

<u>§63.7916 How do I demonstrate initial compliance with the emissions limitations and work practice standards for transfer systems?</u>

(a) You must demonstrate initial compliance with the emissions limitations and work practice standards in §63.7915 that apply to your affected transfer systems by meeting the requirements in paragraphs (b) through (e) of this section, as applicable to your transfer systems.

(b) You must demonstrate initial compliance of each individual drain system using controls according to §63.7915(b) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (b)(1) through (3) of this section.

(1) You have installed air emission controls for each individual drain system and junction box according to the requirements in §63.962(a) and (b), and you have records documenting the installation and design.

(2) You will operate the air emission controls according to the requirements in §63.962(b)(5).

(3) You have performed an initial visual inspection of each individual drain system according to the requirements in §63.964(a), and you have records documenting the inspection results.

(c) You must demonstrate initial compliance of each transfer system using covers according to §63.7915(c)(1) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (c)(1) through (3) of this section.

(1) Each transfer system is equipped with covers and closure devices according to the requirements in §63.689(d)(1) through (4), and you have records documenting the design and installation.

(2) You have performed an initial inspection of each cover and its closure devices for defects according to the requirements in §63.695(d)(1) through (5), and you have records documenting the inspection results.

(3) You will operate each cover and its closure devices according to the requirements in §63.689(5).

(d) You must demonstrate initial compliance of each transfer system that consists of hard piping according to §63.7915(c)(2) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (d)(1) and (2) of this section.

(1) You have installed a transfer system that consists entirely of hard piping and meets the requirements in §63.7915(c)(2), and you have records documenting the design and installation.

(2) You have performed an initial inspection of the entire transfer system to verify that all joints or seams between the pipe sections are permanently or semi-permanently sealed (e.g., a welded joint between two sections of metal pipe or a bolted and gasketed flange), and you have records documenting the inspection results.

(e) You must demonstrate initial compliance of each transfer system that is enclosed and vented to a control device according to §63.7915(e)(3) if you have submitted as part of your notification of compliance status,

specified in §63.7950, a signed statement that you have met the requirements in paragraphs (e)(1) and (2) of this section.

(1) You have installed a transfer system that is designed and operated such that an internal pressure in the vapor headspace in the enclosure is maintained at a level less than atmospheric pressure when the control device is operating, and you have records documenting the design and installation.

(2) You have met each applicable requirement for demonstrating initial compliance with the emission limitations and work practice standards for a closed vent system and control device in §63.7926.

<u>§63.7917 What are my inspection and monitoring requirements for transfer systems</u>?

(a) If you operate an individual drain system as a transfer system according to §63.7915(b), you must visually inspect each individual drain system at least annually according to the requirements in §63.964(a).

(b) If you operate a transfer system using covers according to §63.7915(c)(1), you must inspect each cover and its closure devices for defects according to the requirements in §63.695(d)(1) through (5).

(c) If you operate a transfer system consisting of hard piping according to §63.7915(c)(2), you must annually inspect the entire pipeline and all joints for leaks and other defects. In the event that a defect is detected, you must repair the leak or defect according to the requirements of paragraph (e) of this section.

(d) If you operate a transfer system that is enclosed and vented to a control device according to §63.7915(c)(3), you must meet requirements in paragraphs (d)(1) and (2) of this section.

(1) You must annually inspect all enclosure components (e.g., enclosure sections, closure devices, fans) for defects that would prevent an internal pressure in the vapor headspace in the enclosure from continuously being maintained at a level less than atmospheric pressure when the control device is operating. In the event that a defect is detected, you must repair the defect according to the requirements of paragraph (e) of this section.

(2) You must monitor and inspect the closed vent system and control device according to the requirements in §63.7927 that apply to you.

(e) If you are subject to paragraph (c) or (d) of this section, you must repair all detected defects as specified in paragraphs (e)(1) through (3) of this section.

(1) You must make first efforts at repair of the defect no later than 5 calendar days after detection and repair shall be completed as soon as possible but no later than 45 calendar days after detection except as provided in paragraph (e)(2) of this section.

(2) Repair of a defect may be delayed beyond 45 calendar days if you determine that repair of the defect requires emptying or temporary removal from service of the transfer system and no alternative transfer system is available at the site to accept the material normally handled by the system. In this case, you must repair the defect the next time the process

or unit that is generating the material handled by the transfer system stops operation. Repair of the defect must be completed before the process or unit resumes operation.

(3) You must maintain a record of the defect repair according to the requirements specified in §63.7952.

<u>§63.7918 How do I demonstrate continuous compliance with the emissions limitations and work practice standards for transfer systems?</u>

(a) You must demonstrate continuous compliance with the emissions limitations and work practice standards in §63.7915 applicable to your affected transfer system by meeting the requirements in paragraphs (b) through (e) of this section as applicable to your transfer systems.

(b) You must demonstrate continuous compliance for each individual drain system using controls according to §63.7915(b) by meeting the requirements in paragraphs (b)(1) through (5) of this section.

(1) Operating and maintaining the air emission controls for individual drain systems according to the requirements in §63.962.

(2) Visually inspecting each individual drain system at least annually according to the requirements in §63.964(a).

(3) Repairing defects according to the requirements in §63.964(b).

(4) Recording the information specified in §63.965(a).

(5) Keeping records to document compliance with the requirements of this subpart according to the requirements in §63.7952.

(c) You must demonstrate continuous compliance for each transfer system using covers according to §63.7915(c)(1) by meeting the requirements in paragraphs (c)(1) through (4) of this section.

(1) Operating and maintaining each cover and its closure devices according to the requirements in §63.689(d)(1) through (5).

(2) Performing inspections of each cover and its closure devices for defects at least annually according to the requirements in §63.695(d)(1) through (5).

(3) Repairing defects according to the requirements in §63.695(5)

(4) Keeping records to document compliance with the requirements of this subpart according to the requirements in §63.7952.

(d) You must demonstrate continuous compliance for each transfer system that consists of hard piping according to §63.7915(c)(2) by meeting the requirements in paragraphs (d)(1) through (4) of this section.

(1) Operating and maintaining the pipeline to ensure that all joints or seams between the pipe sections remain permanently or semi-permanently sealed (e.g., a welded joint between two sections of metal pipe or a bolted and gasketed flange).

(2) Inspecting the pipeline for defects at least annually according to the requirements in §63.7918(c).

(3) Repairing defects according to the requirements in §63.7918(e).

(4) Keeping records to document compliance with the requirements of this subpart according to the requirements in §63.7952.

(e) You must demonstrate continuous compliance for each transfer system that is enclosed and vented to a control device according to §63.7915(e)(3) by meeting the requirements in paragraphs (e)(1) through (5) of this section.

(1) Operating and maintaining the enclosure to ensure that the internal pressure in the vapor headspace in the enclosure is maintained continuously at a level less than atmospheric pressure when the control device is operating.

(2) Inspecting the enclosure and its closure devices for defects at least annually according to the requirements in §63.7918(d).

(3) Repairing defects according to the requirements in §63.7918(e).

(4) Meeting each applicable requirement for demonstrating continuous compliance with the emission limitations and work practice standards for a closed vent system and control device in §63.7928.

(5) Keeping records to document compliance with the requirements according to the requirements in §63.7952.

Equipment Leaks

<u>§63.7920 What emissions limitations and work practice standards must I meet for equipment leaks?</u>

(a) You must control HAP emissions from each new and existing equipment subject to §63.7887 according to emissions limitations and work practice standards in this section that apply to your affected equipment.

(b) For your affected equipment, you must meet the requirements in either paragraph (b)(1) or (2) of this section.

(1) Control equipment leaks according to all applicable requirements under 40 CFR part 63, subpart TT--National Emission Standards for Equipment Leaks--Control Level 1; or

(2) Control equipment leaks according to all applicable requirements under 40 CFR part 63, subpart UU--National Emission Standards for Equipment Leaks - Control Level 2.

(c) If you use a closed vent system and control device to comply with this section, as an alternative to meeting the standards in §63.1015 or §63.1034 for closed vent systems and control devices, you may elect to meet the requirements in §§63.7925 through 63.7928 that apply to your closed vent system and control device.

(d) As provided in §63.6(g), you may request approval from the EPA to use an alternative to the work practice standards in this section that apply to your equipment. If you request for permission to use an alternative to the work practice standards, you must submit the information described in §63.6(g)(2).

<u>§63.7921 How do I demonstrate initial compliance with the emissions limitations and work practice standards for equipment leaks</u>?

(a) You must demonstrate initial compliance with the emissions limitations and work practice standards in §63.7920 that apply to your affected equipment by meeting the requirements in paragraphs (b) and (c) of this section, as applicable to your affected sources.

(b) If you control equipment leaks according to the requirements under §63.7920(b)(1), you must demonstrate initial compliance if you have met the requirements in paragraphs (b)(1) and (2) of this section.

(1) You include the information required in §63.1018(a)(1) in your notification of compliance status report.

(2) You have submitted as part of your notification of compliance status a signed statement that:

(i) You will meet the requirements in §§63.1002 through 63.1016 that apply to your affected equipment.

(ii) You have identified the equipment subject to control according to the requirements in §63.1003, including equipment designated as unsafe to monitor, and have records supporting the determinations with a written plan for monitoring the equipment according to the requirements in §63.1003(c)(4).

(c) If you control equipment leaks according to the requirements under §63.7920(b)(2), You must demonstrate initial compliance if you have met the requirements in paragraphs (c)(1) and (2) of this section.

(1) You have included the information required in §63.1039(a) in your notification of compliance status report.

(2) You have submitted as part of your notification of compliance status a signed statement that:

(i) You will meet the requirements in §§63.1021 through 63.1037 that apply to your affected equipment.

(ii) You have identified the equipment subject to control according to the requirements in §63.1022, including equipment designated as unsafe to monitor, and have records supporting the determinations with a written plan for monitoring the equipment according to the requirements in §63.1022(c)(4).

<u>§63.7922 How do I demonstrate continuous compliance with the work practice standards for equipment leaks</u>?

(a) You must demonstrate continuous compliance with the emissions limitations and work practice standards in §63.7920 applicable to your affected equipment by meeting the requirements in paragraphs (b) through (d) of this section that apply to you.

(b) If you control equipment leaks according to the requirements under §63.7920(b)(1), you must demonstrate continuous compliance by inspecting, monitoring, repairing, and maintaining records according to the requirements in §§63.1002 through 63.1018 that apply to your affected equipment.

(c) If you control equipment leaks according to the requirements under §63.7920(b)(2), you must demonstrate continuous compliance by inspecting, monitoring, repairing, and maintaining records according to the requirements in §§63.1021 through 63.1039 that apply to your affected equipment.

(d) You must keep records to demonstrate compliance with the requirements according to the requirements in §63.7952.

Closed Vent Systems and Control Devices

§63.7925 What emissions limitations and work practice standards must I meet for closed vent systems and control devices?

(a) For each closed-vent system and control device you use to comply with requirements in §§63.7890 through 63.7922, as applicable to your affected sources, you must meet the emissions limitations and work practice standards in this section.

(b) Whenever gases or vapors containing HAP are vented through the closed-vent system to the control device, the control device must be operating except at those times listed in either paragraph (b)(1) or (2) of this section.

(1) The control device may be bypassed for the purpose of performing planned routine maintenance of the closed-vent system or control device in situations when the routine maintenance cannot be performed during periods that the emission point vented to the control device is shutdown. On an annual basis, the total time that the closed-vent system or control device is bypassed to perform routine maintenance must not exceed 240 hours per each calendar year.

(2) The control device may be bypassed for the purpose of correcting a malfunction of the closed-vent system or control device. You must perform the adjustments or repairs necessary to correct the malfunction as soon as practicable after the malfunction is detected.

(c) For each closed vent system, you must meet the work practice standards in §63.693(c).

(d) For each control device other than a flare or a control device used to comply with the facility-wide process vent emission limits in §63.7890(b), you must control HAP emissions to meet either of the emissions limits in paragraphs (d)(1) or (2) of this section except as provided for in paragraph (f) of this section.

(1) Reduce emissions of total HAP listed in Table 1 of this subpart or TOC (minus methane and ethane) from each control device by 95 percent by weight; or

(2) Limit the concentration of total HAP listed in Table 1 of this subpart or TOC (minus methane and ethane) from each combustion control device (a thermal incinerator, catalytic incinerator, boiler, or process heater) to 20 ppmv or less on a dry basis corrected to 3 percent oxygen.

(e) If you use a flare for your control device, then you must meet the requirements for flares in §63.11(b).

(f) If you use a process heater or boiler for your control device, then as alternative to meeting the emissions limits in paragraph (d) of this section you may choose to comply with one of the work practice standards in paragraphs (f)(1) through (3) of this section.

(1) Introduce the vent stream into the flame zone of the boiler or process heater and maintain the conditions in the combustion chamber at a residence time of 0.5 seconds or longer and at a temperature of 760EC or higher; or

(2) Introduce the vent stream with the fuel that provides the predominate heat input to the boiler or process heater (i.e., the primary fuel); or

(3) Introduce the vent stream to a boiler or process heater for which you either have been issued a final permit under 40 CFR part 270 and complies with the requirements of 40 CFR part 266, subpart H--Hazardous Waste Burned in Boilers and Industrial Furnaces; or has certified compliance with the interim status requirements of 40 CFR part 266, subpart H.

(g) For each control device other than a flare, you must meet each operating limit in paragraphs (g)(1) through (6) of this section that applies to your control device.

(1) If you use a regenerable carbon adsorption system, you must:

(i) Maintain the hourly average total regeneration stream mass flow during the adsorption bed regeneration cycle greater than or equal to the stream mass flow established in the design evaluation or performance test.

(ii) Maintain the hourly average temperature of the adsorption bed during regeneration (except during the cooling cycle) greater than or equal to the temperature established during the design evaluation or performance test.

(iii) Maintain the hourly average temperature of the adsorption bed after regeneration (and within 15 minutes after completing any cooling cycle) less than or equal to the temperature established during the design evaluation.

(iv) Maintain the frequency of regeneration greater than or equal to the frequency established during the design evaluation.

(2) If you use a nonregenerable carbon adsorption system, you must maintain the hourly average temperature of the adsorption bed less than or equal to the temperature established during the design evaluation or performance test.

(3) If you use a condenser, you must maintain the daily average condenser exit temperature less than or equal to the temperature established during the design evaluation or performance test.

(4) If you use a thermal incinerator, you must maintain the daily average firebox temperature greater than or equal to the temperature established in the design evaluation or during the performance test.

(5) If you use a catalytic incinerator, you must maintain the daily average temperature difference across the catalyst bed greater than or equal to the minimum temperature difference established during the performance test or design evaluation.

(6) If you use a boiler or process heater to comply with an emission limit in paragraph (d) of this section, you must maintain the daily average firebox temperature within the operating level established during the design evaluation or performance test.

(h) If you use a carbon adsorption system as your control, you must meet each work practice standard in paragraphs (h)(1) through (3) of this section that applies to your control device.

(1) If you use a regenerable carbon adsorption system, you must:

(i) Replace the existing adsorbent in each segment of the bed with an adsorbent that meets the replacement specifications established during the design evaluation before the age of the adsorbent exceeds the maximum allowable age established during the design evaluation.

(ii) Follow the disposal requirements for spent carbon in §63.693(d)(4).

(2) If you use a nonregenerable carbon adsorption system, you must:

(i) Replace the existing adsorbent in each segment of the bed with an adsorbent that meets the replacement specifications established during the design evaluation before the age of the adsorbent exceeds the maximum allowable age established during the design evaluation.

(ii) Meet the disposal requirements for spent carbon in §63.693(d)(4)(ii).

(3) If you use a nonregenerative carbon adsorption system, you may choose to comply with the requirements in paragraphs (h)(3)(i) and (ii) of this section as an alternative to the requirements in paragraph (h)(2) of this section. You must:

(i) Immediately replace the carbon canister or carbon in the control device when the monitoring device indicates breakthrough has occurred according to the requirements in §63.693(d)(4)(iii)(A), or replace the carbon canister or carbon in the control device at regular intervals according to the requirements in §63.693(d)(4)(iii)(B).

(ii) Follow the disposal requirements for spent carbon in §63.693(d)(4)(ii).

(i) If you use a catalytic incinerator, you must replace the existing catalyst bed with a bed that meets the replacement specifications before the age of the bed exceeds the maximum allowable age established in the design evaluation or during the performance test.

(j) As provided in §63.6(g), you may request approval from the EPA to use an alternative to the work practice standards in this section that apply to your closed vent systems and control devices. If you request for permission to use an alternative to the work practice standards, you must submit the information described in §63.6(g)(2).

<u>§63.7926 How do I demonstrate initial compliance with the emission limitations and work practice standards for closed vent systems and control devices?</u>

(a) You must demonstrate initial compliance with the emissions limitations and work practice standards in this subpart applicable to your closed vent system and control device by meeting the requirements in paragraphs (b) through (h) of this section that apply to your closed vent system and control device.

(b) You must demonstrate initial compliance with the closed vent system work practice standards in §63.7925(c) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (b)(1) and (2) of this section.

(1) You have installed a closed vent system that meets the requirements in §63.695(c)(1) and (2), and you have records documenting the equipment design and installation.

(2) You have performed the initial inspection of the closed vent system according to the requirements in §63.695(c)(1)(i) or (ii), and you have records documenting the inspection results.

(c) You must demonstrate initial compliance of each control device subject to the emissions limits in §63.7925(d) with the applicable emissions limit in §63.7925(d) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (c)(1) and (2) of this section that apply to you.

(1) For the emissions limit in §63.7925(d)(1), the emissions of total HAP listed in Table 1 of this subpart or TOC (minus methane and ethane) from the control device, measured or determined according to the procedures for performance tests and design evaluations in §63.7941, are reduced by at least 95 percent by weight.

(2) For the emissions limit in §63.7925(d)(2), the concentration of total HAP listed in Table 1 of this subpart or TOC (minus methane and ethane) from the combustion control device, measured by a performance test or determined by a design evaluation according to the procedures in §63.7941, do not exceed 20 ppmv on a dry basis corrected to 3 percent oxygen.

(d) You must demonstrate initial compliance of each control device subject to operating limits in §63.7925(g) with the applicable limits if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (d)(1) and (2) of this section.

(1) You have established an appropriate operating limit(s) for each of the operating parameter applicable to your control device as specified in §63.7925(g)(1) through (6).

(2) You have a record of the applicable operating parameter data during the performance test or design evaluation during which the emissions met the applicable limit.

(e) You must demonstrate initial compliance with the spent carbon replacement and disposal work practice standards for carbon adsorption systems in §63.7925(h) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you will comply with each work practice standard that applies to your carbon adsorption system.

(f) You must demonstrate initial compliance with the catalyst replacement work practice standards for catalytic incinerators in §63.7925(i) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you will comply with the specified work practice standard.

(g) You must demonstrate initial compliance of each flare with the work practice standards in §63.7925(e) if you have submitted as part of

your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (g)(1) through (3) of this section.

(1) Each flare meets the requirements in §63.11(b).

(2) You have performed a visible emissions test, determined the net heating value of gas being combusted, and determined the flare exit velocity as required in §63.693(h)(2).

(3) You will operate each flare according to the requirements in §63.11(b).

(h) You must demonstrate initial compliance of each boiler or process heater with the work practice standards in §63.7925(f) if you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (h)(1) through (3) of this section.

(1) For the work practice standards in §63.7925(f)(1), you have records documenting that the boiler or process heater is designed to operate at a residence time of 0.5 seconds or greater and maintain the combustion zone temperature at 760EC or greater.

(2) For the work practice standard in §63.7925(f)(2), you have records documenting that the vent stream is introduced with the fuel according to the requirements in §63.693(g)(1)(iv), or that the vent stream is introduced to a boiler or process heater that meets the requirements in §63.693(g)(1)(v).

(3) For the work practice standard in §63.7925(f)(3), you have records documenting you either have been issued a final permit under 40 CFR part 270 and your boiler or process heater complies with the requirements of 40 CFR part 266, subpart H--Hazardous Waste Burned in Boilers and Industrial Furnaces; or has been certified in compliance with the interim status requirements of 40 CFR part 266, subpart H.

<u>§63.7927 What are my inspection and monitoring requirements for closed vent systems and control devices</u>?

(a) You must comply with the requirements in paragraphs (a)(1) and (2) of this section for each closed vent system.

(1) You must monitor and inspect each closed vent system according to the requirements in either paragraph (a)(1)(i) or (ii) of this section.

(i) You must monitor, inspect, and repair defects according to the requirements in §63.695(c)(1)(ii) through (c)(3); or

(ii) You must monitor and inspect the closed vent system according to the requirements in §63.172(f) through (j) and record the information in §63.181.

(2) If your closed vent system includes a bypass device, you must meet the requirements in either paragraph (a)(2)(i) or (ii) of this section.

(i) Use a flow indicator to determine if the presence of flow according to the requirements in §63.693(c)(2)(i); or

(ii) Use a seal or locking device and make monthly inspections as required by §63.693(c)(2)(ii).

(b) If you use a regenerable carbon adsorption system, you must meet the requirements in paragraphs (b)(1) through (3) of this section.

(1) Use a continuous parameter monitoring system (CPMS) to measure and record the hourly average total regeneration stream mass flow during each carbon adsorption cycle.

(2) Use a CPMS to measure and record the hourly average temperature of the adsorption bed during regeneration (except during the cooling cycle).

(3) Use a CPMS to measure and record the hourly average temperature of the adsorption bed after regeneration (and within 15 minutes of after completing any cooling cycle).

(c) If you use a nonregenerable carbon adsorption system, you must use a CPMS to measure and record the hourly average temperature of the adsorption bed or you must monitor the concentration of organic compounds in the exhaust vent stream according to the requirements in §63.693(d)(4)(iii)(A).

(d) If you use a condenser, you must use a CPMS to measure and record the hourly average condenser exit temperature and determine and record the daily average condenser exit temperature.

(e) If you use a thermal incinerator, you must use a CPMS to measure and record the hourly average firebox temperature and determine and record the daily average firebox temperature.

(f) If you use a catalytic incinerator, you must use a CPMS with two temperature sensors to measure and record the hourly average temperature at

the inlet of the catalyst bed, the hourly average temperature at the outlet of the catalyst bed, the hourly average temperature difference across the catalyst bed, and to determine and record the daily average temperature difference across the catalyst bed.

(g) If you use a boiler or process heater to meet an emission limitation, you must use a CPMS to measure and record the hourly average firebox temperature and determine and record the daily average firebox temperature.

(h) If you use a flare, you must monitor the operation of the flare using a heat sensing monitoring device according to the requirements in §63.693(h)(3).

(i) If you introduce the vent stream into the flame zone of a boiler or process heater according to the requirements in §63.7925(f)(1), you must use a CPMS to measure and record the combustion zone temperature.

<u>§63.7928 How do I demonstrate continuous compliance with the emissions limitations and work practice standards for closed vent systems and control devices</u>?

(a) You must demonstrate continuous compliance with the emissions limitations and work practice standards in this subpart applicable to your closed vent system and control device by meeting the requirements in paragraphs (b) through (j) of this section as applicable to your closed vent system and control device.

(b) You must demonstrate continuous compliance with the closed vent system work practice standards in §63.7925(c) by meeting the requirements in paragraphs (b)(1) through (7) of this section.

(1) For a closed vent system designed to operate with no detectable organic emissions, visually inspecting the closed vent system at least annually, monitoring after a repair or replacement using the procedures in §63.694(k), and monitoring at least annually according to the requirements in §63.695(c)(1)(ii).

(2) For a closed vent system designed to operate below atmospheric pressure, visually inspecting the closed vent system at least annually according to the requirements in §63.695(c)(2)(ii).

(3) Repairing defects according to the requirements in §63.695(c)(3).

(4) Keeping records of each inspection that include the information in paragraphs (b)(4)(i) through (iii) of this section:

(i) A closed vent system identification number (or other unique identification description you select).

(ii) Date of each inspection.

(iii) If a defect is detected during an inspection, the location of the defect, a description of the defect, the date of detection, the corrective action taken to repair the defect, and if repair is delayed, the reason for any delay and the date completion of the repair is expected.

(5) If you elect to monitor the closed vent system according to the requirements in §63.172(f) through (j), recording the information in §63.181.

(6) If the closed vent system is equipped with a flow indicator, recording the information in §63.693(c)(ii)(i).

(7) If the closed vent system is equipped with a seal or locking device, visually inspecting the seal or closure mechanism at least monthly according to the requirements in §63.693(c)(ii)(i), and recording the results of each inspection.

(c) You must demonstrate continuous compliance of each control device subject to the emissions limits in §63.7925(d) with the applicable emissions limit in §63.7925(d) by meeting the requirements in paragraphs (c)(1) and (2) of this section.

(1) For the emission limit in §63.7925(d)(1), maintaining the reduction in emissions of total HAP listed in Table 1 of this subpart or TOC (minus methane and ethane) from the control device at 95 percent by weight or greater.

(2) For the emission limit in §63.7925(d)(2), maintaining the concentration of total HAP listed in Table 1 of this subpart or TOC (minus methane and ethane) from the control device at 20 ppmv or less.

(d) You must demonstrate continuous compliance of each control device subject to operating limits in §63.7925(g) with the applicable limits by meeting the requirements in paragraphs (d)(1) through (4) of this section.

(1) Maintaining each operating limit according to the requirements in §63.7925(g) as applicable to the control device.

(2) Monitoring and inspecting each control device according to the requirements in §63.7927(b) through (i) as applicable to the control device.

(3) Operating and maintaining each continuous monitoring system according to the requirements in §63.7945, and collecting and reducing data according to the requirements in §63.7946.

(4) Keeping records to document compliance with the requirements of this subpart according to the requirements in §63.7952.

(e) You must demonstrate continuous compliance with the spent carbon replacement and disposal work practice standards for regenerable carbon adsorption systems in §63.7925(h)(1) by meeting the requirements in paragraphs (e)(1) through (3) of this section.

(1) Replacing the adsorbent as required by §63.7925(h)(1)(i).

(2) Following the disposal requirements for spent carbon in §63.693(d)(4)(ii).

(3) Keeping records to document compliance with the requirements of the work practice standards.

(f) You must demonstrate continuous compliance with the spent carbon replacement and disposal work practice standards for nonregenerable carbon adsorption systems in §63.7925(h)(2) by meeting the requirements in paragraphs (f)(1) through (3) of this section.

(1) Replacing the adsorbent as required by the work practice standard in §63.7925(h)(2)(i).

(2) Following the disposal requirements for spent carbon in §63.693(d)(4)(ii).

(3) Keeping records to document compliance with the requirements of the work practice standards.

(g) You must demonstrate continuous compliance with the spent carbon replacement and disposal work practice standards for nonregenerable carbon adsorption systems in §63.7925(h)(3) by meeting the requirements in paragraphs (g)(1) through (3) of this section.

(1) Monitoring the concentration level of the organic compounds in the exhaust vent for the carbon adsorption system as required in §63.7927(c), immediately replacing the carbon canister or carbon in the control device when breakthrough is indicated by the monitoring device, and recording the date of breakthrough and carbon replacement. Or, you must replace the carbon canister or carbon in the control device at regular intervals and record the date of carbon replacement.

(2) Following the disposal requirements for spent carbon in §63.693(d)(4)(ii).

(3) Keeping records to document compliance with the requirements of the work practice standards.

(h) You must demonstrate continuous compliance with the catalyst replacement work practice standards for catalytic incinerators in §63.7925(i) by meeting the requirements in paragraphs (h)(1) and (2) of this section.

(1) Replacing the existing catalyst bed as required in §63.7925(i).

(2) Keeping records to document compliance with the requirements of the work practice standards.

(i) You must demonstrate continuous compliance of each flare with the work practice standards in §63.7925(e) by meeting the requirements in paragraphs (i)(1) through (5) of this section.

(1) Operating the flare with no visible emissions except for up to 5 minutes in any 2 consecutive hours according to the requirements in §63.11(b)(4).

(2) Monitoring the presence of a pilot flare according to the requirements in §63.7927(h) and maintaining a pilot flame and flare flame at all times that emissions are not vented to the flare according to the requirements in §63.11(b)(5).

(3) Operating the flare with an exit velocity according to the requirements in §63.11(b)(6) through (8).

(4) Operating the flare with a net heating value of the gas being combusted according to the requirements in §63.11(b)(6)(ii).

(5) Keeping records to document compliance with the requirements of the work practice standards.

(j) You must demonstrate continuous compliance of each boiler or process heater with the work practice standards in §63.7925(f) by meeting the requirements in paragraphs (j)(1) through (3) of this section.

(1) For the work practice standards in §63.7925(f)(1), you must demonstrate continuous compliance by meeting the requirements in paragraphs (j)(1)(i) through (iv).

(i) Maintaining conditions in the combustion chamber at a residence time of 0.5 seconds or longer and at a combustion zone temperature at 760EC or greater whenever the vent stream is introduced to the flame zone of the boiler or process heater.

(ii) Monitoring each boiler or process heater according to the requirements in §63.7927(i).

(iii) Operating and maintaining each continuous monitoring system according to the requirements in §63.7945, and collecting and reducing data according to the requirements in §63.7946.

(iv) Keeping records to document compliance with residence time design requirement.

(2) For the work practice standards in §63.7925(f)(2), you maintain the boiler or process heater operations such that the vent stream is introduced with the fuel according to the requirements in §63.693(g)(1)(iv), or that the vent stream is introduced to a boiler or process heater that meets the requirements in §63.693(g)(1)(v).

(3) For the work practice standard in §63.7925(f)(3), you remain in compliance with all terms and conditions of the final permit under 40 CFR part 270 and your boiler or process heater complies with the requirements of 40 CFR part 266, subpart H--Hazardous Waste Burned in Boilers and Industrial Furnaces; or in compliance with the interim status requirements of 40 CFR part 266, subpart H, as applicable to your boiler or process heater.

General Compliance Requirements

§63.7935 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emissions limitations (including operating limits) and the work practice standards in this subpart at all times, except during periods of startup, shutdown, and malfunction.

(b) You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i).

(c) You must develop and implement a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in §63.6(e)(3).

(d) During periods of startup, shutdown, and malfunction, you must operate according to the SSMP.

(e) You must report each instance in which you did not meet each emissions limitation and each operating limit that applies to you. This includes periods of startup, shutdown, and malfunction. You must also report each instance in which you did not meet the requirements for work practice standards that apply to you. These instances are deviations from the emissions limitations and work practice standards in this subpart. These deviations must be reported according to the requirements in §63.7951.

(f) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator’s satisfaction that you were operating according to the SSMP. We will determine whether deviations that occur

during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

(g) For each monitoring system required in this section, you must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

(1) Installation of the continuous monitoring system sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device).

(2) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system.

(3) Performance evaluation procedures and acceptance criteria (e.g., calibrations).

(h) In your site-specific monitoring plan, you must also address the following:

(1) Ongoing operation and maintenance procedures according to the general requirements of §63.8(c)(1), (3), (4)(ii), (7), and (8).

(2) Ongoing data quality assurance procedures according to the general requirements of §63.8(d).

(3) Ongoing recordkeeping and reporting procedures according to the general requirements of §63.10(c), (e)(1), and (e)(2)(i).

(i) You must operate and maintain the continuous monitoring system according to the site-specific monitoring plan.

(j) You must conduct a performance evaluation of each continuous monitoring according to your site-specific monitoring plan.

§63.7936 What requirements must I meet if I transfer remediation material off-site to another facility?

(a) If you transfer to another facility a remediation material generated by your remediation activities and having an average total VOHAP concentration equal to or greater than 10 ppmw (as determined using the procedures specified in §63.7943), then you must transfer the remediation material to a facility that meets the requirements in paragraph (b) of this section. You must record the name, street address, and telephone number of the facility where you send this remediation material.

(b) You may elect to transfer the remediation material to one of the following facilities:

(1) A facility where your remediation material will be directly disposed in a landfill or other land disposal unit according to all applicable Federal and State requirements.

(2) A facility subject to 40 CFR part 63, subpart DD where the exemption under §63.680(b)(2)(iii) is waived and air emissions from the management of your remediation material at the facility are controlled according to all applicable requirements in the subpart for an off-site material. Prior to sending your remediation material, you must obtain a written statement from the owner or operator of the facility to which you send your remediation material acknowledging that the exemption under §63.680(b)(2)(iii) will be waived for all remediation material received at

the facility from you and your material will be managed as an off-site material at the facility according to all applicable requirements. This statement must be signed by the responsible official of the receiving facility, provide the name and address of the receiving facility, and a copy sent to the appropriate EPA Regional Office at the addresses listed in 40 CFR 63.13.

(3) A facility where your remediation material will be managed according to all applicable requirements under this subpart.

(i) You must prepare and include a notice with each shipment or transport of remediation material from your site. This notice must state that the remediation material contains organic HAP that are to be treated according to the provisions of this subpart. When the transport is continuous or ongoing (for example, discharge to a publicly owned treatment works), the notice must be submitted to the receiving facility owner or operator initially and whenever there is a change in the required treatment.

(ii) You may not transfer the remediation material unless the owner or operator of the facility receiving your remediation material has submitted to the EPA a written certification that the he or she will manage remediation material received from you according to the requirements of §§63.7885 through 63.7957. The receiving facility owner or operator may revoke the written certification by sending a written statement to the EPA and to you providing at least 90 days notice that they rescind acceptance of responsibility for compliance with the regulatory provisions listed in

this section. Upon expiration of the notice period, you may not transfer your remediation material to the facility.

(iii) By providing the written certification to the EPA, the receiving facility owner or operator accepts responsibility for compliance with the regulatory provisions listed in paragraph (b)(3) of this section with respect to any shipment of remediation material covered by the written certification. Failure to abide by any of those provisions with respect to such shipments may result in enforcement action by the EPA against the certifying entity according to the enforcement provisions applicable to violations of these provisions by owners or operators of sources.

(iv) Written certifications and revocation statements to the EPA from the receiving facility owner or operator must be signed by the responsible official of the receiving facility, provide the name and address of the receiving facility, and a copy sent to the appropriate EPA Regional Office at the addresses listed in 40 CFR 63.13. Such written certifications are not transferable.

(c) Acceptance by a facility owner or operator of remediation material from a site remediation subject to this subpart does not, by itself, require the facility owner or operator to obtain a title V permit under 40 CFR 70.3 or 40 CFR 71.3.

<u>63.7937 How do I demonstrate initial compliance with the general standards?</u>

(a) You must demonstrate initial compliance with the general standards in §§63.7884 through 63.7887 that apply to your affected sources

by meeting the requirements in paragraphs (b) through (d) of this section, as applicable to you.

(b) You must demonstrate initial compliance with the general standards in §63.7885 that apply to your affected process vents by meeting the requirements in paragraphs (1) through (4) of this section, as applicable to your process vents.

(1) If HAP emissions are controlled from the affected process vents according to the emission limitations and work practice standards specified in §63.7885(b)(1), you have met the initial compliance requirements in §63.7891.

(2) If the remediation material treated or managed by the process vented through the affected process vents has an average total VOHAP less than 10 ppmw according to §63.7885(b)(2), you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have determined, according to the procedures §63.7943, and recorded the average VOHAP concentration of the remediation material placed in the affected remediation material management unit.

(3) If HAP emissions are controlled from the affected process vents to meet standards in another subpart under 40 CFR part 61 or 40 CFR part 63 according to §63.7885(b)(3), you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (b)(3)(i) and (ii) of this section.

(i) You include in your statement the citations for the specific emission limitations and work practice standards that apply to the process vents under the subpart in 40 CFR part 61 or 40 CFR part 63 that the vents are also subject.

(ii) You are complying with all applicable emissions limitations and work practice standards specified by the applicable subpart.

(4) For each process vent exempted according to §63.7885(c), you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (b)(4)(i) and (ii) of this section.

(i) You identify in your statement each process vent that qualifies for an exemption and the exemption conditions in §63.7885(c)(1)(i) or (ii) that apply to each exempted process vent.

(ii) You have performed the measurements and prepared the documentation required in §63.7885(c)(2) that demonstrates that each exempted process vent stream meets the applicable exemption conditions in §63.7885(c)(1).

(c) You must demonstrate initial compliance with the general standards in §63.7886 that apply to your affected remediation material management units by meeting the requirements in paragraphs (1) through (6) of this section, as applicable to your remediation material management units.

(1) If the remediation material management unit uses air pollution controls according to the standards specified in §63.7886(b)(1), you have

met the initial compliance requirements applicable to the remediation material management unit in §§63.7896, 63.7901, 63.7906, 63.7911, or 63.7816.

(2) If the remediation material managed in the affected remediation material managements has an average total VOHAP less than 500 ppmw according to §63.7886(b)(2), you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have determined, according to the procedures §63.7943, and recorded the average VOHAP concentration of the remediation material placed in the affected remediation material management unit.

(3) If HAP emissions are controlled from the affected remediation material management units to meet standards in another subpart under 40 CFR part 61 or 40 CFR part 63 according to §63.7886(b)(3), you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (c)(3)(i) and (ii) of this section.

(i) You include in your statement the citations for the specific emission limitations and work practice standards that apply to the remediation material management units under the subpart in 40 CFR part 61 or 40 CFR part 63 that the units are also subject.

(ii) You are complying with all applicable emissions limitations and work practice standards specified by the applicable subpart.

(4) If HAP emissions are controlled from the affected remediation material management unit that is an open tank or surface impoundment used

for a biological treatment process according to §63.7886(b)(4), you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (c)(4)(i) and (ii) of this section.

(i) You have performed the measurements and prepared the documentation required in §63.7886(4)(i) that demonstrates that each unit meets the applicable performance levels.

(ii) You will monitor the biological treatment process conducted in each unit according the requirements in §63.7886(4)(i).

(5) For each remediation material management unit used for cleanup of radioactive mixed waste and exempted according to §63.7886(c), you have submitted as part of your notification of compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (c)(5)(i) and (ii) of this section.

(i) You include in your statement the citations for the specific requirements that apply to the remediation material management units under regulations, directives, and other requirements under the Atomic Energy Act, the Nuclear Waste Policy Act, or the Waste Isolation Pilot Plant Land Withdrawal Act.

(ii) You are complying with all requirements that apply to the remediation material management units under the applicable regulations or directives.

(6) For each remediation material management unit exempted according to §63.7886(d), you have submitted as part of your notification of

compliance status, specified in §63.7950, a signed statement that you have met the requirements in paragraphs (c)(6)(i) and (ii) of this section.

(i) You have designated according to the requirements in §63.7886(d)(1) each of the remediation material management units you are selecting to be exempted.

(ii) You have performed an initial determination and prepared the documentation required in §63.7886(d)(2) that demonstrates that the total annual HAP quantity (based on the HAP listed in Table 1 of this subpart) in the remediation material placed in all of the designated exempted remediation material management units will be less than 1 Mg/yr.

(d) You must demonstrate initial compliance with the general standards in §63.7887 that apply to your affected equipment leak sources by meeting the requirements in §63.7921.

<u>63.7938 How do I demonstrate continuous compliance with the general standards?</u>

(a) You must demonstrate continuous compliance with the general standards in §§63.7884 through 63.7887 that apply to your affected sources by meeting the requirements in paragraphs (b) through (d) of this section, as applicable to you.

(b) You have demonstrated continuous compliance with the general standards in §63.7885 that apply to your affected process vents by meeting the requirements in paragraphs (1) through (4) of this section, as applicable to your process vents.

(1) If HAP emissions are controlled from the affected process vents according to the emission limitations and work practice standards specified in §63.7885(b)(1), you must demonstrate continuous compliance by meeting the requirements in §63.7893.

(2) If the remediation material treated or managed by the process vented through the affected process vents has an average total VOHAP less than 10 ppmw according to §63.7885(b)(2), you must demonstrate continuous compliance by performing a new determination and preparing new documentation as required in §63.7886(c)(2) to show that the total VOHAP concentration of the remediation material remains less than 10 ppmw.

(3) If HAP emissions are controlled from the affected process vents to meet standards in another subpart under 40 CFR part 61 or 40 CFR part 63 according to §63.7885(b)(3), you must demonstrate continuous compliance by complying with all applicable emissions limitations and work practice standards specified by the applicable subpart.

(4) For each process vent exempted according to §63.7885(c), you must demonstrate continuous compliance by performing new measurements and preparing new documentation as required in §63.7885(c)(2) that demonstrates that each exempted process vent stream meets the applicable exemption conditions in §63.7885(c)(1).

(c) You must demonstrate continuous compliance with the general standards in §63.7886 that apply to your affected remediation material management units by meeting the requirements in paragraphs (1) through (6)

of this section, as applicable to your remediation material management units.

(1) If the remediation material management unit uses air pollution controls according to the standards specified in §63.7886(b)(1), you must demonstrate continuous compliance by meeting the requirements applicable to the remediation material management unit in §§63.7898, 63.7903, 63.7908, 63.7913, or 63.7818.

(2) If the remediation material managed in the affected remediation material managements has an average total VOHAP concentration less than 500 ppmw according to §63.7886(b)(2), you must demonstrate continuous compliance by performing a new determination and preparing new documentation as required in §63.7886(c)(2) to show that the total VOHAP concentration of the remediation material remains less than 500 ppmw.

(3) If HAP emissions are controlled from the affected remediation material management units to meet standards in another subpart under 40 CFR part 61 or 40 CFR part 63 according to §63.7886(b)(3), you must demonstrate continuous compliance by meeting all applicable emissions limitations and work practice standards specified by the applicable subpart.

(4) If HAP emissions are controlled from the affected remediation material management unit that is an open tank or surface impoundment used for a biological treatment process according to §63.7886(b)(4), you must demonstrate continuous compliance by meeting the requirements in paragraphs (c)(4)(i) and (ii) of this section.

(i) Performing new measurements and preparing new documentation as required in §63.7886(4)(i) that demonstrates that each unit meets the applicable performance levels.

(ii) Monitoring the biological treatment process conducted in each unit according the requirements in §63.7886(4)(i).

(5) For each remediation material management unit used for cleanup of radioactive mixed waste and exempted according to §63.7886(c), you must demonstrate continuous compliance by meeting all requirements that apply to the remediation material management units under the applicable regulations or directives.

(6) For each remediation material management unit exempted according to §63.7886(d), you must demonstrate continuous compliance by performing new measurements and preparing new documentation as required in §63.7886(d)(2) to show that the total annual HAP quantity (based on the HAP listed in Table 1 of this subpart) in the remediation material placed in all of the designated exempted remediation material management units remains less than 1 Mg/yr.

(d) You have demonstrated continuous compliance with the general standards in §63.7887 that apply to your affected equipment leak sources by meeting the requirements in §63.7923.

Performance Tests

<u>§63.7940 By what date must I conduct performance tests or other initial compliance demonstrations?</u>

(a) You must conduct a performance test or design evaluation for each existing affected source within 180 calendar days after the compliance date that is specified in §63.7883.

(b) For each work practice standard that applies to you where initial compliance is not demonstrated using a performance test or design evaluation, you must demonstrate initial compliance within 30 calendar days after the compliance date that is specified in §63.7883 for your affected source.

(c) For new sources, you must conduct initial performance tests and other initial compliance demonstrations according to the provisions in §63.7(a)(2)(i) and (ii).

<u>§63.7941 How do I conduct a performance test, design evaluation, or other type of initial compliance demonstration</u>?

(a) You must conduct a performance test or design evaluation to demonstrate initial compliance for each new or existing affected source that is subject to an emission limit in this subpart. You must report the results of the performance test or design evaluation according to the requirements in §63.7950(e)(1).

(b) If you choose to conduct a performance test to demonstrate initial compliance, you must conduct the test according to the requirements in §63.7(e)(1) and paragraphs (b)(1) through (5) of this section.

(1) You must conduct three separate test runs for each performance test required in this section, as specified in §63.7(e)(3). Each test run must last at least 1 hour.

(2) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §63.7(e)(1).

(3) You must conduct each performance test using the test methods and procedures in §63.694(l).

(4) Follow the procedures in paragraphs (b)(4(i) through (iii) of this section to determine compliance with the facility-wide total organic mass emissions rate in §63.7890(a)(1)(i).

(i) Determine compliance with the total organic mass flow rate using Equation 1 of this section as follows:

$$E_h = (0.0416\times10^{-6})Q_{sd} \sum_{i=1}^{n} (C_i\times MW_i) \qquad \text{(Eq. 1)}$$

Where:

E_h = Total organic mass flow rate, kg/h;
Q_{sd} = Volumetric flow rate of gases entering or exiting control device (or exiting the process vent if no control device is used), as determined by Method 2 of 40 CFR part 60, appendix A, dscm/h;
n = Number of organic compounds in the vent gas;
C_i = Organic concentration in ppm, dry basis, of compound i in the vent gas, as determined by Method 18 of 40 CFR part 60, appendix A;
MW_i = Molecular weight of organic compound i in the vent gas,kg/kg-mol;

(ii) Determine compliance with the annual total organic emissions rate using Equation 2 of this section as follows:

$$E_A = E_h\times H \qquad \text{(Eq. 2)}$$

Where:

E_A = Total organic mass emissions rate, kilograms per year;
E_h = Total organic mass flow rate for the process vent, kg/h;
H = Total annual hours of operation for the affected unit, h.

(iii) Determine compliance with the total organic emissions limit from all affected process vents at the facility by summing the total hourly organic mass emissions rates (E_h as determined in Equation 1 of this section) and summing the total annual organic mass emissions rates (E_A, as determined in Equation 2 of this section) for all affected process vents at the facility.

(5) Determine compliance with the 95 percent reduction limit in §63.7890(a)(2)(i) for the combination of all affected process vents at the facility using Equations 3 and 4 of this section to calculate control device inlet and outlet concentrations and Equation 5 of this section to calculate control device emission reductions for process vents as follows:

$$E_i \;'\; K_2 \left(\sum_{j'1}^{n} C_{ij} M_{ij} \right) Q_i \qquad (Eq.\ 3)$$

$$E_o \;'\; K_2 \left(\sum_{j'1}^{n} C_{oj} M_{oj} \right) Q_o \qquad (Eq.\ 4)$$

Where:

C_{ij}, C_{oj} = Concentration of sample component j of the gas stream at the inlet and outlet of the control device, dry basis, parts per

million by volume. For uncontrolled vents, $C_{ij} = C_{oj}$ and equal the concentration exiting the vent;

E_i, E_o = Mass rate of total organic compounds (TOC) (minus methane and ethane) or total HAP, from Table 1 of this subpart, at the inlet and outlet of the control device, respectively, dry basis, kilogram per hour. For uncontrolled vents, $E_i = E_o$ and equal the concentration exiting the vent;

M_{ij}, M_{oj} = Molecular weight of sample component j of the gas stream at the inlet and outlet of the control device, respectively, gram/gram-mole. For uncontrolled vents, $M_{ij} = M_{oj}$ and equal the gas stream molecular weight exiting the vent;

Q_i,Q_o = Flowrate of gas stream at the inlet and outlet of the control device, respectively, dry standard cubic meters per minute (dscm/min). For uncontrolled vents, $Q_i = Q_o$ and equals the flowrate exiting the vent;

K_2 = Constant, 2.494 X 10^{-6} (parts per million)$^{-1}$(gram-mole per standard cubic meter)(kilogram/gram)(minute/hour, where standard temperature (gram-mole per standard cubic meter) is 20EC;

n = the number of components in the sample.

$$R_v = \frac{\sum_{j=1}^{n} E_i - \sum_{j=1}^{n} E_o}{\sum_{j=1}^{n} E_i} x\ 100 \qquad \text{(Eq. 5)}$$

Where:

R_v = Overall emissions reduction for all affected process vents, percent

E_i = Mass rate of TOC (minus methane and ethane) or total HAP, from Table 1 of this subpart, at the inlet to the control device, or exiting the vent for uncontrolled vents, as calculated in this section, kilograms TOC per hour or kilograms HAP per hour;

E_o = Mass rate of TOC (minus methane and ethane) or total HAP, from Table 1 of this subpart, at the outlet to the control device, or exiting the vent for uncontrolled vents, as calculated in this section, kilograms TOC per hour or kilograms HAP per hour. For vents without a control device, $E_o = E_i$;

n = number of affected source process vents.

(c) If you use a carbon adsorption system, condenser, vapor incinerator, boiler, or process heater to meet an emission limit in this

subpart, you may choose to perform a design evaluation to demonstrate initial compliance instead of a performance test. You must perform a design evaluation according to the general requirements in §63.693(b)(8) and the specific requirements in §63.694(d)(2)(ii) for a carbon adsorption system (including establishing carbon replacement schedules and associated requirements), §63.694(e)(2)(ii) for a condenser, §63.694(f)(2)(ii) for a vapor incinerator, or §63.694(g)(2)(i)(B) for a boiler or process heater.

(d) During the performance test or design evaluation, you must collect the appropriate operating parameter monitoring system data, average the operating parameter data over each test run, and set operating limits, whether a minimum or maximum value, based on the average of values for each of the three test runs. If you use a control device design analysis to demonstrate control device performance, then the minimum or maximum operating parameter value must be established based on the control device design analysis and supplemented, as necessary, by the control device manufacturer recommendations or other applicable information.

(e) If you control air emissions from an affected source by introducing the vent stream into the flame zone of a boiler or process heater according to the requirements in §63.693(g)(1)(iii), you must conduct a performance test or design evaluation to demonstrate that the boiler or process heater meets the applicable emission limit while operating at a residence time of 0.5 seconds or greater and at a combustion zone temperature of 760EC or higher.

(f) You must conduct a performance evaluation for each continuous monitoring system according to the requirements in §63.8(e).

(g) If you are required to conduct a visual inspection of an affected source, you must conduct the inspection according to the procedures in §63.906(a)(1) for Tank Level 1 controls, §63.1063(d) for Tank Level 2 controls, §63.946(a) for a surface impoundment equipped with a floating membrane cover, §63.946(b) for a surface impoundment equipped with a cover and vented to a control device, §63.1047(a) for a separator with a fixed roof, §63.1047(c) for a separator equipped with a fixed roof and vented to a control device, §63.695(c)(1)(i) or (c)(2)(i) for a closed vent system, and §63.964(a) for individual drain systems.

(h) If you use Container Level 1 controls, you must conduct a test to demonstrate that the container operates with no detectable organic emissions using Method 21 (40 CFR part 60, appendix A) and the procedures in §63.925(a).

(i) If you use Container Level 2 controls, you must conduct a test to demonstrate that the container operates with no detectable organic emissions or that the container is vapor-tight. You must conduct the test using Method 21 (40 CFR part 60, appendix A) and the procedures in §63.925(a) to demonstrate that the container operates with no detectable organic emissions or Method 27 (40 CFR part 60, appendix A) and the procedures in §63.925(b) to demonstrate that the container is vapor-tight.

(j) If you locate an affected source inside a permanent total enclosure that is vented to a control device, you must demonstrate that the

enclosure meets the verification criteria in section 5 of Procedure T in 40 CFR 52.741, appendix B.

(k) If you use a fixed roof or a floating roof to control air emissions from a separator, you must conduct a test to demonstrate that the roof operates with no detectable organic emissions using Method 21 (40 CFR part 60, appendix A) and the procedures in §63.1046(a). If you use a floating roof, you also must measure the seal gaps according to the procedures in §63.1046(b).

(l) If you use a flare to control air emissions, you must conduct a visible emissions test using Method 22 in 40 CFR part 60, appendix A, and the procedures in §63.11(b)(4).

(m) For each initial compliance demonstration that requires a performance test or design evaluation, you must report the results in your notification of compliance status according to the requirements in §63.7950(e)(1). For each initial compliance demonstration that does not require a performance test or design evaluation, you must submit a notification of compliance status according to the requirements in §63.7950(e)(2).

<u>§63.7942 When must I conduct subsequent performance tests</u>?

For non-flare control devices, you must conduct performance tests at any time the EPA requires you to according to §63.7(3).

<u>§63.7943 How do I determine the average VOHAP concentration of my remediation material</u>?

(a) General requirements. You must determine the average total VOHAP concentration of a remediation material at the point-of-extraction using either direct measurement as specified in paragraph (b) of this section or by knowledge as specified in paragraph (c) of this section.

(b) Direct measurement. To determine the average total VOHAP concentration of a remediation material at the point-of-extraction using direct measurement, you must use the procedures in paragraphs (b)(1) through (3) of this section.

(1) Sampling. Samples of each material stream must be collected at the point-of-extraction in a manner such that volatilization of organics contained in the sample is minimized and an adequately representative sample is collected and maintained for analysis by the selected method.

(i) The averaging period to be used for determining the average total VOHAP concentration for the material stream on a mass-weighted average basis must be designated and recorded. The averaging period can represent any time interval that you determine is appropriate for the material stream but must not exceed 1 year. For streams that are combined, an averaging period representative for all streams must be selected.

(ii) No less than four samples must be collected to represent the complete range of HAP compositions and HAP quantities that occur in each material stream during the entire averaging period due to normal variations in the material stream(s). Examples of such normal variations are variation of the HAP concentration within a contamination area.

(iii) All samples must be collected and handled according to written procedures you prepare and document in a site sampling plan. This plan must describe the procedure by which representative samples of the material stream(s) are collected such that a minimum loss of organics occurs throughout the sample collection and handling process and by which sample integrity is maintained. A copy of the written sampling plan must be maintained on site in the facility operating records. An example of an acceptable sampling plan includes a plan incorporating sample collection and handling procedures according to the guidance found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846 or Method 25D in 40 CFR part 60, appendix A.

(2) Analysis. Each collected sample must be prepared and analyzed according to either one of the methods listed in §63.694(b)(2)(ii), or any current EPA Contracts Lab Program method (or future revisions) capable of identifying all the HAP in Table 1 of this subpart.

(3) Calculations. The average total VOHAP concentration ($\overline{C}$) on a mass-weighted basis must be calculated by using the results for all samples analyzed according to paragraph (c)(2) of this section and Equation 1 of this section as follows:

$$\overline{C} = \frac{1}{Q_T} x \sum_{i=1}^{n} \left(Q_i x C_i\right) \qquad \text{(Eq. 1)}$$

Where:

$\overline{C}$ = Average VOHAP concentration of the material on a mass-weighted basis, ppmw.
i = Individual sample "i" of the material.
n = Total number of samples of the material collected (at least 4 per stream) for the averaging period (not to exceed 1 year).
Q_i = Mass quantity of material stream represented by C_i, kilograms per hour (kg/hr).
Q_T = Total mass quantity of all material during the averaging period, kg/hr.
C_i = Measured VOHAP concentration of sample "i" as determined according to the requirements of paragraph (a)(3)(ii) of this section, ppmw.

(c) Knowledge of the material. To determine the average total VOHAP concentration of a remediation material at the point-of-extraction using knowledge, you must use the procedures in paragraphs (c)(1) through (3) of this section.

(1) Documentation must be prepared that presents the information used as the basis for your knowledge of the material stream's average VOHAP concentration. Examples of information that may be used as the basis for knowledge include: material balances for the source(s) generating each material stream; species-specific chemical test data for the material stream from previous testing that are still applicable to the current material stream; test data for material from the contamination area(s) being remediated.

(2) If test data are used as the basis for knowledge, then you must document the test method, sampling protocol, and the means by which sampling variability and analytical variability are accounted for in the determination of the average VOHAP concentration. For example, you may use HAP concentration test data for the material stream that are validated according to Method 301 in 40 CFR part 63, appendix A as the basis for

knowledge of the material. This information must be provided for each material stream where streams are combined.

(3) If you use species-specific chemical concentration test data as the basis for knowledge of the material, you may adjust the test data to the corresponding average VOHAP concentration value which would be obtained had the material samples been analyzed using Method 305. To adjust these data, the measured concentration for each individual HAP chemical species contained in the material is multiplied by the appropriate species-specific adjustment factor (f_{m305}) listed in Table 1 of this subpart.

(d) In the event that you and us disagree on a determination using knowledge of the average total VOHAP concentration for a remediation material, then the results from a determination of VOHAP concentration using direct measurement by Method 305 in 40 CFR part 60 appendix A, as specified in paragraph (b) of this section, will be used to determine compliance with the applicable requirements of this subpart. We may perform or request that you perform this determination using direct measurement.

<u>§63.7944 How do I determine the maximum HAP vapor pressure of my remediation material</u>?

(a) You must determine the maximum HAP vapor pressure of your remediation material using either direct measurement as specified in paragraph (b) of this section or by knowledge as specified in paragraph (c) of this section.

(b) Direct measurement to determine the maximum HAP vapor pressure.

(1) Sampling. A sufficient number of samples must be collected to be representative of the remediation material contained in the tank. All samples must be collected and handled according to written procedures prepared by you and documented in a site sampling plan. This plan must describe the procedure by which representative samples of the remediation material are collected such that a minimum loss of organics occurs throughout the sample collection and handling process and by which sample integrity is maintained. A copy of the written sampling plan must be maintained on site in the facility site operating records. An example of an acceptable sampling plan includes a plan incorporating sample collection and handling procedures according to the guidance found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846 or Method 25D in 40 CFR part 60, appendix A.

(2) Analysis. Any one of the following methods may be used to analyze the samples and compute the maximum HAP vapor pressure of the remediation material:

(i) Method 25E in 40 CFR part 60 appendix A;

(ii) Methods described in American Petroleum Institute Bulletin 2517, "Evaporation Loss from External Floating Roof Tanks,";

(iii) Methods obtained from standard reference texts;

(iv) ASTM Method 2879-83; or

(v) Any other method approved by the Administrator.

(c) Use of knowledge to determine the maximum HAP vapor pressure. Documentation must be prepared and recorded that presents the information

used as the basis for your knowledge that the maximum HAP vapor pressure of the remediation material is less than the maximum vapor pressure limit listed in Table 2 of this subpart for the applicable tank design capacity category.

(d) In the event that you and us disagree on a determination using knowledge of the maximum HAP vapor pressure of the remediation material, then the results from a determination of maximum HAP vapor pressure using direct measurement by Method 25E in 40 CFR part 60 appendix A, as specified in paragraph (b) of this section, will be used to determine compliance with the applicable requirements of this subpart. We may perform or request that you perform this determination using direct measurement.

Continuous Monitoring Systems

<u>§63.7945 What are my monitoring installation, operation, and maintenance requirements?</u>

(a) Each CPMS must meet the requirements in paragraphs (a)(1) through (4) of this section.

(1) Complete a minimum of one cycle of operation for each successive 15-minute period.

(2) To calculate a valid hourly value, you must have at least three of four equally spaced data values (or at least two, if that condition is included to allow for periodic calibration checks) for that hour from a CPMS that is not out of control according to the monitoring plan referenced in §63.7935.

(3) To calculate the average emissions for each averaging period, you must have at least 75 percent of the hourly averages for that period using only block hourly average values that are based on valid data (i.e., not from out-of-control periods).

(4) Unless otherwise specified, each CPMS must determine the hourly average of all recorded readings and daily average, if required.

(b) You must record the results of each inspection, calibration, and validation check.

(c) You must conduct a performance evaluation for each CPMS according to the requirements in §63.8(e) and your site-specific monitoring plan.

<u>§63.7946 How do I monitor and collect data to demonstrate continuous compliance?</u>

(a) You must monitor and collect data according to this section and your site-specific monitoring plan required in §63.7935.

(b) Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times that the affected source is operating.

(c) You may not use data recorded during monitoring malfunctions, associated repairs, out of control periods and required quality assurance or control activities in data averages and calculations used to report emissions or operating levels, nor may such data be used in fulfilling a minimum data availability requirement, if applicable. You must use all the

data collected during all other periods in assessing the operation of the control device and associated control system.

§63.7947 What are my monitoring alternatives?

(a) As an alternative to the parametric monitoring required in this subpart, you may install, calibrate, and operate a continuous emission monitoring system (CEMS) to measure the control device outlet total organic emissions or organic HAP emissions concentration.

(1) The CEMS used on combustion control devices must include a diluent gas monitoring system (for O_2 or CO_2) with the pollutant monitoring system in order to correct for dilution (e.g., to 0 percent excess air).

(2) Each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. Data must be reduced as specified in §63.8(g)(2).

(3) You must conduct a performance evaluation of the CEMS according to according to the requirements in §63.8 and Performance Specification 8 (for a total organic emissions CEMS) or Performance Specification 9 (for a HAP emissions CEMS) and Performance Specification 3 (for an O_2 or CO_2 CEMS) of 40 CFR part 60, appendix B. The relative accuracy provision of Performance Specification 8, sections 2.4 and 3 need not be conducted.

(4) You must prepare a site-specific monitoring plan for operating, calibrating, and verifying the operation of your CEMS according to the requirements in §§63.8(c), (d), and (e).

(5) You must establish the emissions concentration operating limit according to paragraphs (a)(5)(i) and (ii) of this section.

(i) During the performance test, you must monitor and record the total organic or HAP emissions concentration at least once every 15 minutes during each of the three test runs.

(ii) Use the data collected during the performance test to calculate and record the average total organic or HAP emissions concentration maintained during the performance test. The average total organic or HAP emissions concentration, corrected for dilution as appropriate, is the maximum operating limit for your control device.

(b) You must maintain the daily (24-hour) average total organic or HAP emissions concentration in the exhaust vent stream of the control device outlet less than or equal to the site-specific operating limit established during the performance test.

Notification, Reports, and Records

§63.7950 What notifications must I submit and when?

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

(b) As specified in §63.9(b)(2), if you start up your affected source before [INSERT DATE OF PUBLICATION OF THE FINAL RULE IN THE FEDERAL REGISTER], you must submit an Initial Notification not later than 120 calendar days after [INSERT DATE OF PUBLICATION OF THE FINAL RULE IN THE FEDERAL REGISTER].

(c) As specified in §63.9(b)(3), if you start up your new or reconstructed affected source on or after the effective date, you must

submit an Initial Notification no later than 120 calendar days after initial startup.

(d) 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).

(e) If you are required to conduct a performance test, design evaluation, or other initial compliance demonstration, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration that includes a performance test or design evaluation, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2). You must submit the complete design evaluation and supporting documentation.

(2) For each initial compliance demonstration that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th calendar day following the completion of the initial compliance demonstration.

(f) You must provide written notification to the Administrator of the alternative standard selected under §63.1006(b)(5) or (6) before implementing either of the provisions.

<u>§63.7951 What reports must I submit and when?</u>

(a) Compliance report due dates. Unless the Administrator has approved a different schedule, you must submit a semiannual compliance report to your permitting authority according to the requirements specified in paragraphs (a)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7883 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for your affected source.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after your first compliance report is due.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after the end of the semiannual reporting period.

(5) 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 the dates specified in paragraphs (a)(1) through (4) of this section.

(b) Compliance report contents. Each compliance report must include the information specified in paragraphs (b)(1) through (3) of this section and, as applicable, paragraphs (b)(4) through (9) of this section.

(1) Company name and address.

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

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

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took action consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from any emissions limitations (including operating limit), work practice standards, or operation and maintenance requirements, a statement that there were no deviations from the emissions limitations, work practice standards, or operation and maintenance requirements during the reporting period.

(6) If there were no periods during which a continuous monitoring system (including a CPMS or CEMS) was out-of-control as specified by §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

(7) For each deviation from an emissions limitation (including an operating limit) that occurs at an affected source for which you are not

using a continuous monitoring system (including a CPMS or CEMS) to comply with an emissions limitation or work practice standard required in this subpart, the compliance report must contain the information specified in paragraphs (b)(1) through (4) and (b)(7)(i) and (ii) of this section. This requirement includes periods of startup, shutdown, and malfunction.

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

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

(8) For each deviation from an emissions limitation (including an operating limit) or work practice standard occurring at an affected source where you are using a continuous monitoring system (including a CPMS or CEMS) to comply with the emissions limitations or work practice standard in this subpart, you must include the information specified in paragraphs (b)(1) through (4) and (b)(8)(i) through (xi) of this section. This requirement includes periods of startup, shutdown, and malfunction.

(i) The date and time that each malfunction started and stopped.

(ii) The date and time that each continuous monitoring system was inoperative, except for zero (low-level) and high-level checks.

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

(iv) 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.

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

(vi) 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 unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.

(viii) A brief description of the process units.

(ix) A brief description of the continuous monitoring system.

(x) The date of the latest continuous monitoring system certification or audit.

(xi) A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.

(9) You must include the information on equipment leaks required in periodic reports by §63.1018(a) or §63.1039(b).

(c) Immediate startup, shutdown, and malfunction report. If you had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements of §63.10(d)(5)(ii) .

(d) Part 70 monitoring report. If you have obtained a title V operating permit for an affected source pursuant to 40 CFR part 70 or 40 CFR part 71, you must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If you submit a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emissions limitation or operation and maintenance requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements for an affected source to your permitting authority.

<u>§63.7952 What records must I keep</u>?

(a) You must keep the records specified in paragraphs (a)(1) through (4) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirements in §63.10(b)(1) and (b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startups, shutdowns, and malfunctions.

(3) Results of performance tests and performance evaluations as required by §63.10(b)(2)(viii).

(4) The records of initial and ongoing determinations for affected sources that are exempt from control requirements under this subpart.

(b) For each continuous monitoring system, you must keep the records as described in paragraphs (b)(1) and (2) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi) that apply to your continuous monitoring system.

(2) Performance evaluation plans, including previous (i.e., superseded) versions of the plan as required in §63.8(d)(3).

(c) You must keep the records required by this subpart to show continuous compliance with each emissions limitation, work practice standard, and operation and maintenance requirement that applies to you.

(d) You must record, on a semiannual basis, the information in §63.696(g) for planned routine maintenance of a control device for emissions from process vents.

<u>§63.7953 In what form and how long must I keep my records?</u>

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep your files of all information (including all reports and notifications) for 5 years following the date of each occurrence, measurement, maintenance, action taken to correct the cause of a deviation, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records off-site for the remaining 3 years.

(d) If, after the remediation activity is completed, there is no other remediation activity at the facility, and you are no longer the owner of the facility, you may keep all records for the completed remediation activity at an off-site location provided you notify the Administrator in writing of the name, address and contact person for the off-site location.

Other Requirements and Information

§63.7955 What parts of the General Provisions apply to me?

Table 3 of this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§63.7956 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the EPA, or a delegated authority such as your State, local, or tribal agency. If the EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency, in addition to the EPA, has the authority to implement and enforce this subpart. You should contact your EPA Regional Office (see list in §63.13) 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 section 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are

retained by the Administrator of EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that cannot be delegated to State, local, or tribal agencies are listed in paragraphs (a)(1) through (4) of this section.

(1) Approval of alternatives to the non-opacity emissions limitations and work practice standards in this subpart under §63.6(g).

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

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

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

§63.7957 What definitions apply to this subpart?

Terms used in this subpart are defined in the CAA, in §63.2, and in this section. If a term is defined both in this section and in another subpart cross-referenced by this subpart, then the term will have the meaning given in this section for purposes of this subpart.

Boiler means an enclosed combustion device that extracts useful energy in the form of steam and is not an incinerator or a process heater.

Closed vent system means a system that is not open to the atmosphere and is composed of hard-piping, ductwork, connections, and, if necessary, fans, blowers, or other flow-inducing device that conveys gas or vapor from an emissions point to a control device.

Closure device means a cap, hatch, lid, plug, seal, valve, or other type of fitting that prevents or reduces air pollutant emissions to the atmosphere by blocking an opening in a cover when the device is secured in the closed position. Closure devices include devices that are detachable from the cover (e.g., a sampling port cap), manually operated (e.g., a hinged access lid or hatch), or automatically operated (e.g., a spring-loaded pressure relief valve).

Container means a portable unit used to hold material. Examples of containers include, but are not limited to drums, dumpsters, roll-off boxes, bulk cargo containers commonly known as portable tanks or totes, cargo tank trucks, dump trucks, and rail cars. For the purpose of this subpart, a front-end loader, excavator, backhoe, or other type of self-propelled excavation equipment is not a container.

Continuous record means documentation of data values measured at least once every 15 minutes and recorded at the frequency specified in this subpart.

Continuous recorder means a data recording device that either records an instantaneous data value at least once every 15 minutes or records 15-minutes or more frequent block averages.

Control device means equipment used recovering, removing, oxidizing, or destroying organic vapors. Examples of such equipment include but are not limited to carbon adsorbers, condensers, vapor incinerators, flares, boilers, and process heaters.

Cover means a device that prevents or reduces air pollutant emissions to the atmosphere by forming a continuous barrier over the remediation material managed in a unit. A cover may have openings (such as access hatches, sampling ports, gauge wells) that are necessary for operation, inspection, maintenance, and repair of the unit on which the cover is used. A cover may be a separate piece of equipment which can be detached and removed from the unit (such as a tarp) or a cover may be formed by structural features permanently integrated into the design of the unit.

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 emissions limitation (including any 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 emissions limitation,(including any operating limit), or work practice standard in this subpart during startup, shutdown, or malfunction, regardless or whether or not such failure is permitted by this subpart.

Emissions limitation means any emissions limit, opacity limit, operating limit, or visible emissions limit.

Emissions point means an individual tank, surface impoundment, container, oil-water, organic-water separator, transfer system, vent, or enclosure.

Enclosure means a structure that surrounds a tank or container, captures organic vapors emitted from the tank or container, and vents the captured vapor through a closed vent system to a control device.

Equipment means each pump, pressure relief device, sampling connection system, valve, and connector used in remediation material service at a facility.

External floating roof means a pontoon-type or double-deck type cover that rests on the liquid surface in a tank with no fixed roof.

Facility means all contiguous or adjoining property that is under common control including properties that are separated only by a road or other public right-of-way. Common control includes properties that are owned, leased, or operated by the same entity, parent entity, subsidiary, or any combination thereof. A unit or group of units within a contiguous property that are not under common control (e.g., a wastewater treatment unit located at the facility but is owned by a different company) is a different facility.

Fixed roof means a cover that is mounted on a unit in a stationary position and does not move with fluctuations in the level of the liquid managed in the unit.

Flame zone means the portion of the combustion chamber in a boiler or process heater occupied by the flame envelope.

Floating roof means a cover consisting of a double deck, pontoon single deck, or internal floating cover which rests upon and is supported by the liquid being contained, and is equipped with a continuous seal.

Flow indicator means a device that indicates whether gas is flowing, or whether the valve position would allow gas to flow in a bypass line.

Hard-piping means pipe or tubing that is manufactured and properly installed according to relevant standards and good engineering practices.

Individual drain system means a stationary system used to convey wastewater streams or residuals to a remediation material management unit or to discharge or disposal. The term includes hard-piping, all drains and junction boxes, together with their associated sewer lines and other junction boxes (e.g., manholes, sumps, and lift stations) conveying wastewater streams or residuals. For the purpose of this subpart, an individual drain system is not a drain and collection system that is designed and operated for the sole purpose of collecting rainfall runoff (e.g., stormwater sewer system) and is segregated from all other individual drain systems.

Internal floating roof means a cover that rests or floats on the liquid surface (but not necessarily in complete contact with it inside a tank that has a fixed roof).

Maximum HAP vapor pressure means the sum of the individual HAP equilibrium partial pressure exerted by remediation material at the temperature equal to either: the monthly average temperature as reported by the National Weather Service when the remediation material is stored or

treated at ambient temperature; or the highest calendar-month average temperature of the remediation material when the remediation material is stored at temperatures above the ambient temperature or when the remediation material is stored or treated at temperatures below the ambient temperature. For the purpose of this subpart, maximum HAP vapor pressure is determined using the procedures specified in §63.7944.

No detectable organic emissions means no escape of organics to the atmosphere as determined using the procedure specified in §63.694(k).

Oil-water separator means a separator as defined for this subpart that is used to separate oil from water.

Operating parameter value means a minimum or maximum value established for a control device or treatment process parameter which, if achieved by itself or in combination with one or more other operating parameter values, determines that an owner or operator has complied with an applicable emissions limitation or standard.

Organic-water separator means a separator as defined for this subpart that is used to separate organics from water.

Point-of-extraction means a point above ground where you can collect samples of a remediation material before or at the first point where organic constituents in the material have the potential to volatilize and be released to the atmosphere and before placing the material in a remediation material management unit or treatment process. For the purpose this subpart, the first point where the organic constituents in the remediation material have the potential to volatilize and be released to

the atmosphere is not a fugitive emissions point due to an equipment leak from any of the following equipment components: pumps, compressors, valves, connectors, instrumentation systems, or safety devices.

Process heater means an enclosed combustion device that transfers heat released by burning fuel directly to process streams or to heat transfer liquids other than water.

Process vent means any open-ended pipe, stack, duct, or other opening intended to allow the passage of gases, vapors, or fumes to the atmosphere and this passage is caused by mechanical means (such as compressors, vacuum-producing systems or fans) or by process-related means (such as volatilization produced by heating). For the purposes of this subpart, a process vent is neither a safety device (as defined in this section) nor a stack, duct or other opening used to exhaust combustion products from a boiler, furnace, heater, incinerator, or other combustion device.

Radioactive mixed waste means a material that contains both hazardous waste subject to RCRA and source, special nuclear, or by-product material subject to the Atomic Energy Act of 1954.

Remediation material means a material that contains one or more of the HAP listed in Table 1 of this subpart, and this material is one of the following:

(1) A material found in naturally occurring media such as soil, groundwater, surface water, sediments, or a mixture of such materials with liquids, sludges, or solids which is inseparable by simple mechanical

removal processes and is made up primarily of media. This material does not include debris as defined in 40 CFR 268.2.

(2) A material found in intact or substantially intact containers, tanks, storage piles, or other storage units that requires clean up because this material poses a reasonable potential threat to contaminating media. Examples of these materials include, but are not limited to, solvents, oils, paints, and other volatile or semi-volatile organic liquids found in buried drums, cans, or other containers; gasoline, fuel oil, or other fuels in leaking underground storage tanks; and solid materials containing volatile or semi-volatile organics in unused or abandoned piles. Remediation material is not a waste or residue generated by routine equipment maintenance activities performed at a facility such as, but not limited to, tank bottoms and sludges removed during tank cleanouts; sludges and sediments removed from active wastewater treatment tanks, surface impoundments, or lagoons; spent catalyst removed from process equipment; residues removed from air pollution control equipment; and debris removed during heat exchanger and pipeline cleanouts.

Remediation material management unit means a tank, container, surface impoundment, oil-water separator, organic-water separator, or transfer system used to remove, destroy, degrade, transform, immobilize, or otherwise manage remediation material.

Remediation material service means any time when a pump, compressor, agitator, pressure relief device, sampling connection system, open-ended

valve or line, valve, connector, or instrumentation system contains or contacts remediation material.

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 to prevent physical damage or permanent deformation to equipment by venting gases or vapors during unsafe conditions resulting from an unplanned, accidental, or emergency event. For the purpose 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 this vapor headspace 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 equipment as determined by the owner or operator based on manufacturer recommendations, applicable regulations, fire protection and prevention codes, standard engineering codes and practices, or other requirements for the safe handling of flammable, combustible, explosive, reactive, or hazardous materials.

Separator means a remediation material management unit, generally a tank, used to separate oil or organics from water. A separator consists of not only the separation unit but also the forebay and other separator basins, skimmers, weirs, grit chambers, sludge hoppers, and bar screens

that are located directly after the individual drain system and prior to any additional treatment units such as an air flotation unit clarifier or biological treatment unit. Examples of a separator include, but are not limited to, an API separator, parallel-plate interceptor, and corrugated-plate interceptor with the associated ancillary equipment.

Site remediation means one or more activities or processes used to remove, destroy, degrade, transform, immobilize, or otherwise manage remediation material. The monitoring or measuring of contamination levels in environmental media using wells or by sampling is not considered to be a site remediation.

Sludge means sludge as defined in §260.10 of this chapter.

Soil means unconsolidated earth material composing the superficial geologic strata (material overlying bedrock), consisting of clay, silt, sand, or gravel size particles (sizes as classified by the U.S. Soil Conservation Service), or a mixture of such materials with liquids, sludges, or solids which is inseparable by simple mechanical removal processes and is made up primarily of soil.

Stabilization process means any physical or chemical process used to either reduce the mobility of contaminants in media or eliminate free liquids as determined by Test Method 9095 - Paint Filter Liquids Test in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846, Third Edition, September 1986, as amended by Update I, November 15, 1992. (As an alternative, you may use any more recent, updated version of Method 9095 approved by the EPA). A stabilization

process includes mixing remediation material with binders or other materials, and curing the resulting remediation material and binder mixture. Other synonymous terms used to refer to this process are fixation or solidification. A stabilization process does not include the adding of absorbent materials to the surface of remediation material, without mixing, agitation, or subsequent curing, to absorb free liquid.

Surface impoundment means a unit that is a natural topographical depression, man-made excavation, or diked area formed primarily of earthen materials (although it may be lined with man-made materials), which is designed to hold an accumulation of liquids. Examples of surface impoundments include holding, storage, settling, and aeration pits, ponds, and lagoons.

Tank means a stationary unit that is constructed primarily of nonearthen materials (such as wood, concrete, steel, fiberglass, or plastic) which provide structural support and is designed to hold an accumulation of liquids or other materials.

Temperature monitoring device means a piece of equipment used to monitor temperature and having an accuracy of ±1 percent of the temperature being monitored expressed in degrees Celsius (EC) or ±1.2 degrees EC, whichever value is greater.

Transfer system means a stationary system for which the predominant function is to convey liquids or solid materials from one point to another point within waste management operation or recovery operation. For the purpose of this subpart, the conveyance of material using a container (as

defined of this subpart) or self-propelled vehicle (e.g., a front-end loader) is not a transfer system. Examples of a transfer system include but are not limited to a pipeline, an individual drain system, a gravity-operated conveyor (such as a chute), and a mechanically-powered conveyor (such as a belt or screw conveyor).

Treatment process means a process in which remediation material is physically, chemically, thermally, or biologically treated to destroy, degrade, or remove hazardous air pollutants contained in the material. A treatment process can be composed of a single unit (e.g., a steam stripper) or a series of units (e.g., a wastewater treatment system). A treatment process can be used to treat one or more remediation material streams at the same time.

Volatile organic hazardous air pollutant (VOHAP) concentration means the fraction by weight of the HAP listed in Table 1 of this subpart that are contained in the remediation material as measured using Method 305, 40 CFR part 63, appendix A and expressed in terms of parts per million (ppm). As an alternative to using Method 305, 40 CFR part 63, appendix A, you may determine the HAP concentration of the remediation material using any one of the other test methods specified in §63.694(b)(2)(ii). When a test method specified in §63.694(b)(2)(ii) other than Method 305 in 40 CFR part 63, appendix A is used to determine the speciated HAP concentration of the contaminated material, the individual compound concentration may be adjusted by the corresponding f_{m305} listed in Table 1 of this subpart to determine a VOHAP concentration.

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 CAA.

Tables to Subpart GGGGG of Part 63

Table 1 to Subpart GGGGG of Part 63-- List of Hazardous Air Pollutants

CAS No.[a]	Compound Name	$f_{m\ 305}$
75070	Acetaldehyde	1.000
75058	Acetonitrile	0.989
98862	Acetophenone	0.314
107028	Acrolein	1.000
107131	Acrylonitrile	0.999
107051	Allyl chloride	1.000
71432	Benzene (includes benzene in gasoline)	1.000
98077	Benzotrichloride (isomers and mixture)	0.958
100447	Benzyl chloride	1.000
92524	Biphenyl	0.864
542881	Bis(chloromethyl)ether[b]	0.999
75252	Bromoform	0.998
106990	1,3-Butadiene	1.000
75150	Carbon disulfide	1.000
56235	Carbon Tetrachloride	1.000
43581	Carbonyl sulfide	1.000
133904	Chloramben	0.633
108907	Chlorobenzene	1.000
67663	Chloroform	1.000
107302	Chloromethyl methyl ether[b]	1.000
126998	Chloroprene	1.000
98828	Cumene	1.000
94757	2,4-D, salts and esters	0.167
334883	Diazomethane[c]	0.999
132649	Dibenzofurans	0.967

96128	1,2-Dibromo-3-chloropropane	1.000
106467	1,4-Dichlorobenzene(p)	1.000
107062	Dichloroethane (Ethylene dichloride)	1.000
111444	Dichloroethyl ether (Bis(2-chloroethyl ether)	0.757
542756	1,3-Dichloropropene	1.000
79447	Dimethyl carbamoyl chloride[c]	0.150
57147	1,1-Dimethyl hydrazine	
64675	Diethyl sulfate	0.0025
77781	Dimethyl sulfate	0.086
121697	N,N-Dimethylaniline	0.0008
51285	2,4-Dinitrophenol	0.0077
121142	2,4-Dinitrotoluene	0.0848
123911	1,4-Dioxane (1,4-Diethyleneoxide)	0.869
106898	Epichlorohydrin (1-Chloro-2,3-epoxypropane)	0.939
106887	1,2-Epoxybutane	1.000
140885	Ethyl acrylate	1.000
100414	Ethyl benzene	1.000
75003	Ethyl chloride (Chloroethane)	1.000
106934	Ethylene dibromide (Dibromoethane)	0.999
107062	Ethylene dichloride (1,2-Dichloroethane)	1.000
151564	Ethylene imine (Aziridine)	0.867
75218	Ethylene oxide	1.000
75343	Ethylidene dichloride (1,1-Dichloroethane)	1.000
	Glycol ethers[d] that have a Henry's Law constant value equal to or greater than 0.1 Y/X(1.8 X 10^{-6} atm/gm-mole/m^3) at 25°C	[e]
118741	Hexachlorobenzene	0.97
87683	Hexachlorobutadiene	0.88

67721	Hexachloroethane	0.499
110543	Hexane	1.000
78591	Isophorone	0.506
58899	Lindane (all isomers)	1.000
67561	Methanol	0.855
74839	Methyl bromide (Bromomethane)	1.000
74873	Methyl chloride (Choromethane)	1.000
71556	Methyl chloroform (1,1,1-Trichloroethane)	1.000
78933	Methyl ethyl ketone (2-Butanone)	0.990
74884	Methyl iodide (Iodomethane)	1.000
108101	Methyl isobutyl ketone (Hexone)	0.979
624839	Methyl isocyanate	1.000
80626	Methyl methacrylate	0.999
1634044	Methyl tert butyl ether	1.000
75092	Methylene chloride (Dichloromethane)	1.000
91203	Naphthalene	0.994
98953	Nitrobenzene	0.394
79469	2-Nitropropane	0.989
82688	Pentachloronitrobenzene (Quintobenzene)	0.839
87865	Pentachlorophenol	0.0898
75445	Phosgene[c]	1.000
123386	Propionaldehyde	0.999
78875	Propylene dichloride (1,2-Dichloropropane)	1.000
75569	Propylene oxide	1.000
75558	1,2-Propylenimine (2-Methyl aziridine)	0.945
100425	Styrene	1.000
96093	Styrene oxide	0.830
79345	1,1,2,2-Tetrachloroethane	0.999

127184	Tetrachloroethylene (Perchloroethylene)	1.000
108883	Toluene	1.000
95534	o-Toluidine	0.152
120821	1,2,4-Trichlorobenzene	1.000
71556	1,1,1-Trichloroethane (Methyl chlorform)	1.000
79005	1,1,2-Trichloroethane (Vinyl trichloride)	1.000
79016	Trichloroethylene	1.000
95954	2,4,5-Trichlorophenol	0.108
88062	2,4,6-Trichlorophenol	0.132
121448	Triethylamine	1.000
540841	2,2,4-Trimethylpentane	1.000
108054	Vinyl acetate	1.000
593602	Vinyl bromide	1.000
75014	Vinyl chloride	1.000
75354	Vinylidene chloride (1,1-Dichloroethylene)	1.000
1330207	Xylenes (isomers and mixture)	1.000
95476	o-Xylenes	1.000
108383	m-Xylenes	1.000
106423	p-Xylenes	1.000

Notes:

2. $f_{m\ 305}$ = Fraction measure factor in Method 305, 40 CFR part 63, appendix A.

[a] CAS numbers refer to the Chemical Abstracts Services registry number assigned to specific compounds, isomers, or mixtures of compounds.

[b] Denotes a HAP that hydrolyzes quickly in water, but the hydrolysis products are also HAP chemicals.

[c] Denotes a HAP that may react violently with water.

[d] Denotes a HAP that hydrolyzes slowly in water.

[e] The $f_{m\ 305}$ factors for some of the more common glycol ethers can be obtained by contacting the Waste and Chemical Processes Group, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711.

Table 2 to Subpart GGGGG of Part 63-- Control Levels as Required by §63.7895(a) for Tanks Managing Remediation Material with a Maximum HAP Vapor Pressure Less Than 76.6 kPa

If your tank design capacity is ...	And the maximum HAP vapor pressure of the remediation material placed in your tank is ...	Then your tank must use ...
1. less than 38 m^3	less than 76.6 kPa	Tank Level 1 controls under §63.7895(b)
2. at least 38 m^3 but less than 151 m^3	less than 13.1 kPa	Tank Level 1 controls under §63.7895(b)
3. 151 m^3 or greater	less than 0.7 kPa	Tank Level 1 controls under §63.7895(b)
4. at least 38 m^3 but less than 151 m^3	13.1 kPa or greater	Tank Level 2 controls under §63.7895(c)
5. 151 m^3 or greater	0.7 kPa or greater	Tank Level 2 controls under §63.7895(c)

As stated in §63.7940, you must comply with the applicable General Provisions requirements according to the following table:

Table 3 to Subpart GGGGG of Part 63--Applicability of General Provisions to Subpart GGGGG

Citation	Subject	Brief Description	Applies to subpart GGGGG
§63.1	Applicability	Initial Applicability Determination; Applicability After Standard Established; Permit Requirements; Extensions, Notifications	Yes
§63.2	Definitions	Definitions for part 63 standards	Yes
§63.3	Units and Abbreviations	Units and abbreviations for part 63 standards	Yes
§63.4	Prohibited Activities	Prohibited Activities; Compliance date; Circumvention, Severability	Yes
§63.5	Construction/ Reconstruction	Applicability; applications; approvals	Yes
§63.6(a)	Applicability	General Provisions (GP) apply unless compliance extension GP apply to area sources that become major	Yes

§63.6(b)(1)-(4)	Compliance Dates for New and Reconstructed sources	Standards apply at effective date; 3 years after effective date; upon startup; 10 years after construction or reconstruction commences for 112(f)	Yes
§63.6(b)(5)	Notification	Must notify if commenced construction or reconstruction after proposal	Yes
§63.6(b)(6)	[Reserved]		
§63.6(b)(7)	Compliance Dates for New and Reconstructed Area Sources That Become Major	Area sources that become major must comply with major source standards immediately upon becoming major, regardless of whether required to comply when they were an area source	Yes
§63.6(c)(1)-(2)	Compliance Dates for Existing Sources	Comply according to date in subpart, which must be no later than 3 years after effective date For 112(f) standards, comply within 90 days of effective date unless compliance extension	Yes
§63.6(c)(3)-(4)	[Reserved]		

§63.6(c)(5)	Compliance Dates for Existing Area Sources That Become Major	Area sources that become major must comply with major source standards by date indicated in subpart or by equivalent time period (for example, 3 years)	Yes
§63.6(d)	[Reserved]		
§63.6(e)(1)-(2)	Operation & Maintenance	Operate to minimize emissions at all times Correct malfunctions as soon as practicable Operation and maintenance requirements independently enforceable; information Administrator will use to determine if operation and maintenance requirements were met	Yes
§63.6(e)(3)	Startup, Shutdown, and Malfunction Plan (SSMP)	Requirement for startup, shutdown and malfunction (SSM) and SSMP Content of SSMP	Yes with the exception of containers using either Level 1 or Level 2 controls.
§63.6(f)(1)	Compliance Except During SSM	You must comply with emissions standards at all times except during SSM	Yes

§63.6(f)(2)-(3)	Methods for Determining Compliance	Compliance based on performance test, operation and maintenance plans, records, inspection	Yes
§63.6(g)(1)-(3)	Alternative Standard	Procedures for getting an alternative standard	Yes
§63.6(h)	Opacity/Visible Emissions (VE) Standards	Requirements for opacity and visible emissions limits	No. no opacity standards.
§63.6(i)(1)-(14)	Compliance Extension	Procedures and criteria for Administrator to grant compliance extension	Yes
§63.6(j)	Presidential Compliance Exemption	President may exempt source category from requirement to comply with final rule.	Yes
§63.7(a)(1)-(2)	Performance Test Dates	Dates for Conducting Initial Performance Testing and Other Compliance Demonstrations. Must conduct 180 days after first subject to final rule.	Yes
§63.7(a)(3)	CAA Section 114 Authority	Administrator may require a performance test under CAA section 114 at any time.	Yes
§63.7(b)(1)	Notification of Performance Test	Must notify Administrator 60 days before the test.	Yes

§63.7(b)(2)	Notification of Rescheduling	If rescheduling a performance test is necessary, must notify Administrator 5 days before scheduled date of rescheduled date.	Yes
§63.7(c)	Quality Assurance/Test Plan	Requirement to submit site-specific test plan 60 days before the test or on date Administrator agrees with: Test plan approval procedures Performance audit requirements Internal and External QA procedures for testing	Yes
§63.7(d)	Testing Facilities	Requirements for testing facilities	Yes
§63.7(e)(1)	Conditions for Conducting Performance Tests	Performance tests must be conducted under representative conditions. Cannot conduct performance tests during SSM. Not a violation to exceed standard during SSM.	Yes
§63.7(e)(2)	Conditions for Conducting Performance Tests	Must conduct according to rule and EPA test methods unless Administrator approves alternative.	Yes

§63.7(e)(3)	Test Run Duration	Must have three test runs of at least one hour each. Compliance is based on arithmetic mean of three runs. Conditions when data from an additional test run can be used.	Yes
§63.7(f)	Alternative Test Method	Procedures by which Administrator can grant approval to use an alternative test method.	Yes
§63.7(g)	Performance Test Data Analysis	Must include raw data in performance test report. Must submit performance test data 60 days after end of test with the Notification of Compliance Status. Keep data for 5 years.	Yes
§63.7(h)	Waiver of Tests	Procedures for Administrator to waive performance test	Yes
§63.8(a)(1)	Applicability of Monitoring Requirements	Subject to all monitoring requirements in standard	Yes
§63.8(a)(2)	Performance Specifications	Performance Specifications in appendix B of part 60 apply	Yes
§63.8(a)(3)	[Reserved]		

§63.8(a)(4)	Monitoring with Flares	Unless your rule says otherwise, the requirements for flares in 63.11 apply.	Yes
§63.8(b)(1)	Monitoring	Must conduct monitoring according to standard unless Administrator approves alternative.	Yes
§63.8(b)(2)-(3)	Multiple Effluents and Multiple Monitoring Systems	Specific requirements for installing monitoring systems Must install on each effluent before it is combined and before it is released to the atmosphere unless Administrator approves otherwise. If more than one monitoring system on an emissions point, must report all monitoring system results, unless one monitoring system is a backup.	Yes
§63.8(c)(1)	Monitoring System Operation and Maintenance	Maintain monitoring system in a manner consistent with good air pollution control practices.	Yes

§63.8(c)(1)(i)	Routine and Predictable SSM	Follow the SSM plan for routine repairs. Keep parts for routine repairs readily available. Reporting requirements for SSM when action is described in SSM plan.	Yes
§63.8(c)(1)(ii)	SSM not in SSMP	Reporting requirements for SSM when action is not described in SSM plan.	Yes
§63.8(c)(1)(iii)	Compliance with Operation and Maintenance (O&M) Requirements	How Administrator determines if source complying with operation and maintenance requirements. Review of source O&M procedures, records, Manufacturer's instructions, recommendations, and inspection of monitoring system	Yes
§63.8(c)(2)-(3)	Monitoring System Installation	Must install to get representative emissions and parameter measurements. Must verify operational status before or at performance test.	Yes

§63.8(c)(4)	Continuous Monitoring System (CMS) Requirements	CMS must be operating except during breakdown, out-of-control, repair, maintenance, and high-level calibration drifts.	No
§63.8(c)(4)(i)-(ii)	Continuous Monitoring System (CMS) Requirements	COMS must have a minimum of one cycle of sampling and analysis for each successive 10-second period and one cycle of data recording for each successive 6-minute period. CEMS must have a minimum of one cycle of operation for each successive 15-minute period.	Yes. However, COMS are not applicable. Requirements for CPMS are listed in §§63.7900 and 63.7913.
§63.8(c)(5)	COMS Minimum Procedures	COMS minimum procedures	No
§63.8(c)(6)	CMS Requirements	Zero and High level calibration check requirements	Yes. However requirements for CPMS are addressed in §§63.7900 and 63.7913.
§63.8(c)(7)-(8)	CMS Requirements	Out-of-control periods, including reporting	Yes

§63.8(d)	CMS Quality Control	Requirements for CMS quality control, including calibration, etc. Must keep quality control plan on record for 5 years. Keep old versions for 5 years after revisions.	Yes
§63.8(e)	CMS Performance Evaluation	Notification, performance evaluation test plan, reports	Yes
§63.8(f)(1)-(5)	Alternative Monitoring Method	Procedures for Administrator to approve alternative monitoring	Yes
§63.8(f)(6)	Alternative to Relative Accuracy Test	Procedures for Administrator to approve alternative relative accuracy tests for CEMS	No
§63.8(g)(1)-(4)	Data Reduction	COMS 6-minute averages calculated over at least 36 evenly spaced data points. CEMS 1-hour averages computed over at least four equally spaced data points.	Yes. However, COMS are not applicable. Requirements for CPMS are addressed in §§63.7900 and 63.7913.
§63.8(g)(5)	Data Reduction	Data that cannot be used in computing averages for CEMS and COMS.	No

§63.9(a)	Notification Requirements	Applicability and State Delegation	Yes
§63.9(b)(1)-(5)	Initial Notifications	Submit notification 120 days after effective date. Notification of intent to construct/ reconstruct; Notification of commencement of construct/ reconstruct; Notification of startup Contents of each	Yes
§63.9(c)	Request for Compliance Extension	Can request if cannot comply by date or if installed BACT/LAER	Yes
§63.9(d)	Notification of Special Compliance Requirements for New Source	For sources that commence construction between proposal and promulgation and want to comply 3 years after effective date	Yes
§63.9(e)	Notification of Performance Test	Notify Administrator 60 days prior	Yes
§63.9(f)	Notification of VE/Opacity Test	Notify Administrator 30 days prior	No

§63.9(g)	Additional Notifications When Using CMS	Notification of performance evaluation Notification using COMS data Notification that exceeded criterion for relative accuracy	Yes. However, there are no opacity standards.
§63.9(h)(1)-(6)	Notification of Compliance Status	Contents Due 60 days after end of performance test or other compliance demonstration, except for opacity/VE, which are due 30 days after. When to submit to Federal vs. State authority	Yes
§63.9(i)	Adjustment of Submittal Deadlines	Procedures for Administrator to approve change in when notifications must be submitted	Yes
§63.9(j)	Change in Previous Information	Must submit within 15 days after the change	Yes

§63.10(a)	Recordkeeping / Reporting	Applies to all, unless compliance extension When to submit to Federal vs. State authority Procedures for owners of more than 1 source	Yes
§63.10(b)(1)	Recordkeeping / Reporting	General Requirements Keep all records readily available Keep for 5 years	Yes
§63.10(b)(2)(i)-(iv)	Records related to SSM	Occurrence of each of operation (process equipment) Occurrence of each malfunction of air pollution equipment Maintenance on air pollution control equipment Actions during startup, shutdown, and malfunction	Yes
§63.10(b)(2)(vi) and (x -xi)	CMS Records	Malfunctions, inoperative, out-of-control Calibration checks Adjustments, maintenance	Yes

§63.10(b)(2)(vii)-(ix)	Records	Measurements to demonstrate compliance with emissions limitations Performance test, performance evaluation, and visible emissions observation results Measurements to determine conditions of performance tests and performance evaluations.	Yes
§63.10(b)(2)(xii)	Records	Records when under waiver	Yes
§63.10(b)(2)(xiii)	Records	Records when using alternative to relative accuracy test	No
§63.10(b)(2)(xiv)	Records	All documentation supporting Initial Notification and Notification of Compliance Status	Yes
§63.10(b)(3)	Records	Applicability Determinations	Yes
§63.10(c)	Records	Additional Records for CMS	No
§63.10(d)(1)	General Reporting Requirements	Requirement to report	Yes
§63.10(d)(2)	Report of Performance Test Results	When to submit to Federal or State authority	Yes

§63.10(d)(3)	Reporting Opacity or VE Observations	What to report and when	No
§63.10(d)(4)	Progress Reports	Must submit progress reports on schedule if under compliance extension	Yes
§63.10(d)(5)	Startup, Shutdown, and Malfunction Reports	Contents and submission	Yes
§63.10(e)(1)-(2)	Additional CMS Reports	Must report results for each CEM on a unit Written copy of performance evaluation Three copies of COMS performance evaluation	Yes. However, COMS are not applicable
§63.10(e)(3)	Reports	Excess Emissions Reports	No
§63.10(e)(3)(i-iii)	Reports	Schedule for reporting excess emissions and parameter monitor exceedance (now defined as deviations)	No

§63.10(e)(3)(iv-v)	Excess Emissions Reports	Requirement to revert to quarterly submission if there is an excess emissions and parameter monitor exceedance (now defined as deviations) Provision to request semiannual reporting after compliance for one year Submit report by 30th day following end of quarter or calendar half If there has not been an exceedance or excess emissions (now defined as deviations), report contents is a statement that there have been no deviations	No
§63.10(e)(3)(iv-v)	Excess Emissions Reports	Must submit report containing all of the information in §§63.10(c)(5-13) and 63.8(c)(7-8)	No
§63.10(e)(3)(vi-viii)	Excess Emissions Report and Summary Report	Requirements for reporting excess emissions for CMSs (now called deviations) Requires all of the information in §§63.10(c)(5-13) and 63.8(c)(7-8)	No

§63.10(e)(4)	Reporting COMS data	Must submit COMS data with performance test data	No
§63.10(f)	Waiver for Recordkeeping / Reporting	Procedures for Administrator to waive	Yes
§63.11	Flares	Requirements for flares	Yes
§63.12	Delegation	State authority to enforce standards	Yes
§63.13	Addresses	Addresses where reports, notifications, and requests are sent	Yes
§63.14	Incorporation by Reference	Test methods incorporated by reference	Yes
§63.15	Availability of Information	Public and confidential information	Yes

8. The permittee may be subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for the following:

i. Auto and Light Duty Truck Manufacturing, 40 CFR Part 63, Subpart IIII; and

ii. 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.

9. 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, in accordance to 40 CFR Part 63.53(b) unless otherwise provided 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.

10. 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.

11. 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.

11. The following insignificant emissions units are located at this facility:

B003 - Hastings heater #1 (PTI 04-322);
B004 - Hastings heater #2 (PTI 04-322);
B005 - Hastings heater #3 (PTI 04-322);
B006 - Hastings heater #4 (PTI 04-322);
B007 - Hastings heater #5 (PTI 04-322); and
T001 - windshield washer fluid storage tank (PTI 04-830).

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 the identified permit to install for the emissions unit. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more applicable requirements contained in the SIP-approved versions of OAC Chapters 3745-17, 3745-18, and 3745-21.

B. State Only Enforceable Section

1. This permit allows the use of the coatings and cleanup materials specified by the permittee in the application for PTI number 04-1102. In conjunction with the best available technology requirements of OAC rule 3745-31-05, the Toluene 2,4 diisocyanate, Formaldehyde, Phosphoric acid, Triethanolamine, Nitric acid, Ethanolamine, Glycerine, Vinyl chloride, Benzene, Vinyl acetate, n-Butyl alcohol, Ethylene glycol monobutyl ether (2-butoxy ethanol), 1,2,4-Trimethylbenzene, Diisobutyl ketone, Isobutyl alcohol, Toluene, Methyl isobutyl ketone, Methyl amyl ketone, Cumene, Methanol, Propylene glycol methyl ether, Ethylbenzene, Xylene, 3-Methyl butyl acetate (i.e., isoamyl acetate), n-Amyl acetate, Methyl ethyl ketone, Tetrahydrofuran, Dipropylene glycol monomethyl ether, Methyl n-propyl ketone, Isobutyl acetate, Butyl Acetate, Natural gasoline, Isopropyl alcohol, Isopropyl acetate, Aromatic Controlled Naphtha, Mineral Spirits, VM&P Naphtha (Mineral Spirits), Petroleum naphtha, Petroleum distillates, Naphthol Spirits, Solvent naphtha light aliphatic, Aromatic solvent 150, Light aromatic solvent naphtha, Odorless mineral spirits, Mineral Spirits (Hydrocarbons), Petroleum Distillates, Ethyl acetate, Heptane, Acetone and Ethanol emission concentrations specified in this permit were established in accordance with the Ohio EPA's "Air Toxics Policy" and are based on both the coating and cleanup material formulation data and the design parameters of the emissions unit's exhaust system, as specified in the application. Compliance with the Ohio EPA's "Air Toxics Policy" was demonstrated for each pollutant based on the "ISCST3" model and a comparison of the predicted 1 hour maximum ground-level concentration to the MAGLC.

2. Any of the following changes may be deemed a "modification" to the emissions unit and, as such, prior notification to and approval from the Toledo Division of Environmental Services is required, including the possible issuance of modifications to PTI number 04-1102 and the operating permit:

a. any changes in the composition of the coatings or cleanup materials, or the use of new coatings or cleanup 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 specified in the above table;

b. any change to the emissions unit or its exhaust parameters (e.g., increased emission rate, reduction of exhaust gas flow rate, and decreased stack height) that would result in an exceedance of any MAGLC specified in the above table; and

c. any change to the emissions unit or its method of operation that would either require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01.

3. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirements or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

Z001 - plantwide miscellaneous storage tanks;
Z003 - plantwide miscellaneous fluid fill operations;
Z004 - plant wide water wash systems;
Z005 - clean shop sanding booth;
Z006 - plantwide parts washers and cleaners; and
Z007 - plantwide heaters.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Hot water generator #1 (B008)
Activity Description: 32.66 MMBtu/hour natural gas, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
32.66 mmBtu/hour natural gas boiler, with low NOx burners	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 11.9 tpy of CO, 11.9 tpy of nitrogen oxides (NOx), 0.81 tpy of particulate emissions (as PM10), 0.0006 lb of sulfur dioxide (SO2)/mmBtu of actual heat input, 0.09 tpy of SO2, 0.78 tpy of volatile organic compounds (VOC), 5% opacity as a 6-minute average, and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.083 lb of NOx/mmBtu of actual heat input 0.0056 lb of PM10/mmBtu of actual heat input, and 0.0054 lb of VOC/mmBtu of actual heat input
	OAC rule 3745-17-07(A)(1)	See section A.I.2.b.
	OAC rule 3745-17-10(B)(1)	See section A.I.2.b.

OAC rule 3745-18-06(A)	See section A.I.2.c.
OAC rule 3745-21-08(B)	None, see section A.I.2.d.
OAC rule 3745-23-06(B)	None, see section A.I.2.e.
40 CFR Part 60, Subpart Dc	Record keeping per section A.III.1.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rules 3745-18-06(A), 3745-21-08(B), 3745-23-06(B), 3745-31-10 thru 20, and 40 CFR Part 60, Subpart Dc.

2.b The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emission unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. The permittee shall record and maintain records of the amounts of each fuel combusted during each day.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

11.9 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (32.66 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.083 lb of NOx/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.050 lb NOx/mmBtu ((50 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

11.9 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (32.66 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0056 lb of PM10/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0056 lb PM10/mmBtu ((5.7 lb PM/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Methods 201 and 202 of 40 CFR Part 51, Appendix M, and procedures specified in OAC rule 3745-17-03(B)(9). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.81 tpy of PM10

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable PM10 emission limitation (0.0056 lb/mmBtu) by the maximum fuel heat input rate (32.66 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.h Emission Limitation:

0.0006 lb of SO2/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0006 lb SO2/mmBtu ((0.6 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98, or OAC rule 3745-18-04(G)(3). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 6 of 40 CFR Part 60 Appendix A, using the methods and procedures specified in OAC rule 3745-18-04. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.i Emission Limitation:

0.09 tpy of SO2

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable SO2 emission limitation (0.0006 lb/mmBtu) by the maximum fuel heat input rate (32.66 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.j Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.k Emission Limitation:

0.78 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (32.66 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Hot water generator #2 (B009)
Activity Description: 32.66 MMBtu/hour natural gas, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
32.66 mmBtu/hour natural gas boiler, with low NOx burners	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 11.9 tpy of CO, 11.9 tpy of nitrogen oxides (NOx), 0.81 tpy of particulate emissions (as PM10), 0.0006 lb of sulfur dioxide (SO2)/mmBtu of actual heat input, 0.09 tpy of SO2, 0.78 tpy of volatile organic compounds (VOC), 5% opacity as a 6-minute average, and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.083 lb of NOx/mmBtu of actual heat input 0.0056 lb of PM10/mmBtu of actual heat input, and 0.0054 lb of VOC/mmBtu of actual heat input
	OAC rule 3745-17-07(A)(1)	See section A.I.2.b.
	OAC rule 3745-17-10(B)(1)	See section A.I.2.b.

OAC rule 3745-18-06(A)	See section A.I.2.c.
OAC rule 3745-21-08(B)	None, see section A.I.2.d.
OAC rule 3745-23-06(B)	None, see section A.I.2.e.
40 CFR Part 60, Subpart Dc	Record keeping per section A.III.1.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rules 3745-18-06(A), 3745-21-08(B), 3745-23-06(B), 3745-31-10 thru 20, and 40 CFR Part 60, Subpart Dc.

2.b The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emission unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. The permittee shall record and maintain records of the amounts of each fuel combusted during each day.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

11.9 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (32.66 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.083 lb of NOx/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.050 lb NOx/mmBtu ((50 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

11.9 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (32.66 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0056 lb of PM10/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0056 lb PM10/mmBtu ((5.7 lb PM/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Methods 201 and 202 of 40 CFR Part 51, Appendix M, and procedures specified in OAC rule 3745-17-03(B)(9). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.81 tpy of PM10

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable PM10 emission limitation (0.0056 lb/mmBtu) by the maximum fuel heat input rate (32.66 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.h Emission Limitation:

0.0006 lb of SO2/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0006 lb SO2/mmBtu ((0.6 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98, or OAC rule 3745-18-04(G)(3). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 6 of 40 CFR Part 60 Appendix A, using the methods and procedures specified in OAC rule 3745-18-04. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.i Emission Limitation:

0.09 tpy of SO2

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable SO2 emission limitation (0.0006 lb/mmBtu) by the maximum fuel heat input rate (32.66 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.j Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.k Emission Limitation:

0.78 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu), respectively, by the maximum fuel heat input rate (32.66 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Hot water generator #3 (B010)
Activity Description: 32.66 MMBtu/hour natural gas, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
32.66 mmBtu/hour natural gas boiler, with low NOx burners	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 11.9 tpy of CO, 11.9 tpy of nitrogen oxides (NOx), 0.81 tpy of particulate emissions (as PM10), 0.0006 lb of sulfur dioxide (SO2)/mmBtu of actual heat input, 0.09 tpy of SO2, 0.78 tpy of volatile organic compounds (VOC), 5% opacity as a 6-minute average, and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.083 lb of NOx/mmBtu of actual heat input 0.0056 lb of PM10/mmBtu of actual heat input, and 0.0054 lb of VOC/mmBtu of actual heat input
	OAC rule 3745-17-07(A)(1)	See section A.I.2.b.

OAC rule 3745-17-10(B)(1)	See section A.I.2.b.
OAC rule 3745-18-06(A)	See section A.I.2.c.
OAC rule 3745-21-08(B)	None, see section A.I.2.d.
OAC rule 3745-23-06(B)	None, see section A.I.2.e.
40 CFR Part 60, Subpart Dc	Record keeping per section A.III.1.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rules 3745-18-06(A), 3745-21-08(B), 3745-23-06(B), 3745-31-10 thru 20, and 40 CFR Part 60, Subpart Dc.

2.b The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emission unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. The permittee shall record and maintain records of the amounts of each fuel combusted during each day.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures

specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

11.9 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (32.66 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.083 lb of NOx/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.050 lb NOx/mmBtu ((50 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

11.9 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (32.66 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0056 lb of PM10/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0056 lb PM10/mmBtu ((5.7 lb PM/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Methods 201 and 202 of 40 CFR Part 51, Appendix M, and procedures specified in OAC rule 3745-17-03(B)(9). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.81 tpy of PM10

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable PM10 emission limitation (0.0056 lb/mmBtu) by the maximum fuel heat input rate (32.66 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.h Emission Limitation:

0.0006 lb of SO2/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0006 lb SO2/mmBtu ((0.6 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98, or OAC rule 3745-18-04(G)(3). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 6 of 40 CFR Part 60 Appendix A, using the methods and procedures specified in OAC rule 3745-18-04. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.i Emission Limitation:

0.09 tpy of SO2

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable SO2 emission limitation (0.0006 lb/mmBtu) by the maximum fuel heat input rate (32.66 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.j Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.k Emission Limitation:

0.78 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu), respectively, by the maximum fuel heat input rate (32.66 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH 1-2 (B011)
Activity Description: 12.02 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
12.02 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 4.4 tpy of CO, 7.4 tpy of nitrogen oxides (NOx), 0.29 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

4.4 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

7.4 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.29 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH 1-3 (B012)
Activity Description: 12.02 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
12.02 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 4.4 tpy of CO, 7.4 tpy of nitrogen oxides (NOx), 0.29 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

4.4 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

7.4 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.29 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH 1-4 (B013)
Activity Description: 15.03 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
15.03 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 5.5 tpy of CO, 9.3 tpy of nitrogen oxides (NOx), 0.36 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

5.5 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (15.03 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

9.3 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (15.03 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.36 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (15.03 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH 2-3 (B014)
Activity Description: 12.02 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
12.02 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 4.4 tpy of CO, 7.4 tpy of nitrogen oxides (NOx), 0.29 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

4.4 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

7.4 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.29 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH 2-4 (B015)
Activity Description: 15.03 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
15.03 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 5.5 tpy of CO, 9.3 tpy of nitrogen oxides (NOx), 0.36 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

5.5 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (15.03 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

9.3 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (15.03 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.36 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (15.03 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH 1-5 (B016)
Activity Description: 12.02 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
12.02 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 4.4 tpy of CO, 7.4 tpy of nitrogen oxides (NOx), 0.29 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

4.4 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

7.4 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.29 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH 2-5 (B017)
Activity Description: 12.02 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
12.02 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 4.4 tpy of CO, 7.4 tpy of nitrogen oxides (NOx), 0.29 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

4.4 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

7.4 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.29 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH 1-6 (B018)
Activity Description: 13.53 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
13.53 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 5.0 tpy of CO, 8.3 tpy of nitrogen oxides (NOx), 0.33 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

5.0 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (13.53 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

8.3 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (13.53 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.33 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (13.53 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH 2-2 (B019)
Activity Description: 12.02 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
12.02 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 4.4 tpy of CO, 7.4 tpy of nitrogen oxides (NOx), 0.29 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c. Emission Limitation:

4.4 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

7.4 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.29 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (12.02 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH 1-8 (B020)
Activity Description: 10.52 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
10.52 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 3.9 tpy of CO, 6.5 tpy of nitrogen oxides (NOx), 0.25 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

3.9 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (10.52 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

6.5 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (10.52 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.25 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (10.52 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH 2-6 (B021)
Activity Description: 13.53 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
13.53 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 5.0 tpy of CO, 8.3 tpy of nitrogen oxides (NOx), 0.33 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

5.0 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (13.53 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

8.3 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (13.53 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.33 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (13.53 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH 2-8 (B022)
Activity Description: 10.52 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
10.52 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 3.9 tpy of CO, 6.5 tpy of nitrogen oxides (NOx), 0.25 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

3.9 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (10.52 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

6.5 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (10.52 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.25 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (10.52 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH 1-10 (B023)
Activity Description: 15.03 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
15.03 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 5.5 tpy of CO, 9.3 tpy of nitrogen oxides (NOx), 0.36 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

5.5 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (15.03 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

9.3 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (15.03 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.36 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (15.03 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH 2-10 (B024)
Activity Description: 15.03 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
15.03 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 5.5 tpy of CO, 9.3 tpy of nitrogen oxides (NOx), 0.36 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

5.5 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (15.03 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

9.3 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (15.03 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.36 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (15.03 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH A (B025)
Activity Description: 15.03 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
15.03 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 5.5 tpy of CO, 9.3 tpy of nitrogen oxides (NOx), 0.36 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

5.5 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (15.03 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

9.3 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (15.03 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.36 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (15.03 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH B (B026)
Activity Description: 13.53 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
13.53 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 5.0 tpy of CO, 8.3 tpy of nitrogen oxides (NOx), 0.33 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

5.0 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (13.53 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

8.3 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (13.53 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.33 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (13.53 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASH C (B027)
Activity Description: 13.53 MMBtu/hour natural gas air make-up unit, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
13.53 mmBtu/hr direct fired natural gas air makeup unit with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 5.0 tpy of CO, 8.3 tpy of nitrogen oxides (NOx), 0.33 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	0.140 lb of NOx/mmBtu actual heat input, and 0.0054 lb of VOC/mmBtu actual heat input.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3 minute average.
	OAC rule 3745-17-08(B), B(3)(b)	See section A.I.2.b.
	OAC rule 3745-18-06(A)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	None, see section A.I.2.d.
	OAC rule 3745-23-06(B)	None, see section A.I.2.e.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rules 3745-31-10 thru 20.

2.b The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with this applicable requirement including the exclusive combustion of natural gas in this emissions unit.

2.c OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.e 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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% 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 using the methods and procedures specified in OAC rule 3745-17-03(B)(3). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

5.0 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (13.53 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.d Emission Limitation:

0.140 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

8.3 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.140 lb/mmBtu) by the maximum fuel heat input rate (13.53 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using

the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

0.33 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (13.53 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

VI Miscellaneous Requirements

1. For the purpose of determining the total annual emissions from this emissions unit, the permittee may utilize the most recent emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Tables 1.4-1 and 1.4-2. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Plant Roadways and Parking Lots (F001)
Activity Description: Plant-wide roadways and parking areas fugitive dust emissions, includes TNAP and Stickney plant

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Paved roadways and parking areas (see section A.I.2.a.); Stickney Plant	OAC rule 3745-17-07(B)(4)	No visible particulate emissions except for 6 minutes during any 60-minute period.
	OAC rule 3745-17-08(B), (B)(7), (B)(8), (B)(9)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.I.2.b, A.I.2.d, A.I.2.e, A.I.2.f and A.I.2.g).
Paved roadways and parking areas (see section A.I.2.a.); TNAP	OAC rule 3745-31-05(A)(3), established by PTI 04-01102	No visible particulate emissions except for 1 minute during any 60-minute period, and best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.I.2.c, A.I.2.d, A.I.2.f, A.I.2.g and A.I.2.h).
	OAC rule 3745-17-07(B)(4)	See section A.I.2.i.
		See section A.I.2.i.

OAC rules 3745-17-08(B), (B)(7), (B)(8) and (B)(9)

2. Additional Terms and Conditions

2.a The paved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

Stickney Plant paved roadways:

Office Road

Stickney Plant paved parking areas:

Truck lot A
West parking lot
Visitor parking lot
Shipping lot

The paved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rule 3745-31-05(A)(3) are listed below:

TNAP paved roadways:

Loop Road
T/C/F Avenue 3
Paint Avenue 4
Body Avenue 5

TNAP paved parking areas:

Truck marshalling lot B
North parking lot
South parking lot
Shipping lot A
Shipping lot B

2.b The permittee shall employ reasonably available control measures on all Stickney Plant paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall treat the paved roadways and parking areas by flushing with water, sweeping, and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.c The permittee shall employ best available control measures on all TNAP paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall treat the paved roadways and parking areas by flushing with water, sweeping, and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.d The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.

2.e The permittee shall employ reasonably available control measures on the unpaved shoulders of all Stickney Plant paved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall treat the unpaved shoulders of all paved roadways with water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.f The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

2.g Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.

2.h Particulate emissions shall not exceed 0.32 lb/hr and 1.4 tpy for roadways and parking areas at TNAP.

2.i The emission limitations specified by this rule are equivalent to, or less stringent than, the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

1. Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:

paved roadways and parking areas	minimum inspection frequency
all	weekly

The purpose of the inspections is to determine the need for implementing the control measures specified in section A.I.2. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

After the permittee has performed weekly inspections of the paved roadways and parking areas for one calendar quarter and no visible particulate emissions of fugitive dust have been observed, the permittee may begin inspections of the paved roadways and parking areas once per month. If visible particulate emissions of fugitive dust are observed during subsequent monthly inspections, the permittee shall return to an inspection frequency of once per week until no visible particulate emissions of fugitive dust are observed for another calendar quarter. All inspections shall be performed during representative, normal traffic conditions. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraphs (C)(1) and (C)(3) of OAC rule 3745-77-08.

2. The permittee shall maintain separate records of the following information for the Stickney Plant and TNAP for a minimum of five years:

   a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;

   b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

   c. the dates the control measures were implemented; and

   d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in section A.III.2.d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

IV Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:

   a. each period during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and

   b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

   1.a Emission Limitation:

   Stickney Plant roadways and parking areas: no visible particulate emissions except for 6 minutes during any 60-minute period.

   TNAP roadways and parking areas: no visible particulate emissions except for 1 minute during any 60-minute period.

   Applicable Compliance Method:

   Compliance with these emission limitations shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.*

   *The procedures relating to Test Method 22 reflect the settlement agreement reached between Ohio EPA and the Ohio Electric Utilities concerning the Utilities' appeal to the Ohio Environmental Review Appeals Commission of the 1991 revisions and additions to OAC Chapter 3745-17. The revised rule containing the procedures was adopted by the Director of Ohio EPA in December, 1997. The USEPA and the Ohio Electric Utilities

have agreed to consider the procedures as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of the procedures as a revision to the Ohio SIP for particulate matter.

1.b Emission Limitation:

0.32 lb/hr and 1.4 tpy of particulate emissions

Applicable Compliance Method:

Compliance with the best available control measures specified in section A.I.1. shall be considered an adequate demonstration of compliance.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Gasoline Dispensing (G002)
Activity Description: Gasoline dispensing operations with Stage II vapor control or ORVR control and gasoline UST with Stage I control, Stickney

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Gasoline dispensing facility with a refrigerant type Stage II vapor recovery system and one 20,000-gallon underground gasoline storage tank, tank ID: 000-01-007 with a Stage I vapor recovery system; Stickney Plant.	OAC rule 3745-31-05(A)(3) (PTI 04-830)	See sections A.I.2.a, A.I.2.b, and A.I.2.c.
	OAC rule 3745-31-05(D), netting limitations established by PTI 04-830	2.3 tons of volatile organic compounds (VOC) per rolling, 12-month period.
	OAC rule 3745-21-09(R)	See section A.I.2.d.

2. **Additional Terms and Conditions**

2.a The permittee shall not cause, allow, or permit the transfer of gasoline from a stationary storage tank into a motor vehicle unless all vapors displaced from the motor vehicle are vented to a STAGE II vapor control system, or equivalent, which is designed and operated to maintain an overall control efficiency of not less than 90 percent, by weight, for VOC in the displaced vapors. The Stage II vapor control system shall employ only coaxial hoses, and the use of remote check valves shall be prohibited.

2.b The permittee shall restrict the throughput of this emissions unit to a maximum 1,925,000 gallons of gasoline per rolling, 12-month period.

2.c The permittee shall not cause, allow or permit the transfer of gasoline in this emissions unit unless the following Stage I requirements are met:

i. Any stationary storage tank which stores gasoline at the gasoline dispensing facility is equipped with a submerged fill pipe; and

ii. For any transfer of gasoline from a delivery vessel to a stationary storage tank located at the gasoline dispensing facility, the vapors displaced from the stationary storage tank are processed by one of the following systems:

A. a vapor balance system which is designed and operated to route at least 90 percent by weight of the VOC in the displaced vapors to the delivery vessel and which is equipped with a means to prevent the discharge of displaced vapors from an unconnected vapor line; or

B. a vapor control system which is designed and operated to recover at least 90 percent by weight of the VOC in the displaced vapors.

2.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).

II Operational Restrictions

1. The permittee shall comply with the following operational restrictions for the Stage I vapor control system:

a. The vapor balance system shall be kept in good working order and shall be used at all times during the transfer of gasoline.

b. There shall be no leaks in the delivery vessel pressure/vacuum relief valves and hatch covers.

c. There shall be no leaks in the vapor lines or liquid lines during the transfer of gasoline.

d. The transfer of gasoline from a delivery vessel to a stationary storage tank shall be conducted by use of submerged fill into the storage tank. The submerged fill pipe(s) are to be installed so they are within six (6) inches of the bottom of the storage tank.

e. All fill caps shall be "in place" and clamped during normal storage conditions.

f. The permittee shall repair within 15 days any leak from the vapor balance system or vapor control system which is employed to meet the requirements of paragraph (R)(1) of OAC rule 3745-21-09 when such leak is equal to or greater than 100 percent of the lower explosive limit as propane, as determined under paragraph (K) of OAC rule 3745-21-10.

2.a When using a Stage II vapor control system, it shall be installed, operated and maintained in accordance with the manufacturer's specifications, and shall be free of the following defects:

i. Any component, that is required to be employed at all times, is absent or disconnected.

ii. A vapor hose is crimped or flattened such that the vapor passage is blocked, or the pressure drop through the vapor hose exceeds by a factor of two or more the requirements in section A.V.2.a.

iii. A nozzle boot is torn in one or more of the following manners:

A. A triangular-shaped or similar tear one half inch or more to a side, or a hole one half inch or more in length; and

B. A slit one inch or more in length.

iv. A faceplate or flexible cone is damaged in the following manner:

A. For balance nozzles and for nozzles for aspirator and educator assist type systems, the capability to achieve a seal with a fill pipe interface is affected for one fourth of the circumference of the faceplate (accumulated); and

B. For nozzles for vacuum assist-type systems, more than one fourth of the flexible cone is missing.

v. Nozzle shutoff mechanisms are malfunctioning in any manner.

vi. Vapor return lines, including such components as swivels, antirecirculation valves and underground piping are malfunctioning or are blocked, or restricted such that the pressure drop through the lines exceeds by a factor of two or more the requirements specified in section A.V.2.a.

vii. A vapor processing unit is inoperative or malfunctioning.

viii A vacuum producing device is inoperative or malfunctioning.

ix. Pressure/vacuum relief valves, vapor check valves, or dry beaks are inoperative.

x. Any vapor recovery equipment is leaking liquid gasoline or gasoline vapors.

2.b Within 60 days of the utilization of the stage II vapor control system to comply with the control requirements of section A.I.2.a, the permittee shall have successfully completed the testing requirements contained in paragraph (DDD) (2) of OAC rule 3745-21-09, or an alternate test procedure approved by the Ohio EPA

2.c Operating instructions for the vapor control system shall be conspicuously posted in each gasoline dispensing area. The operating instructions shall clearly describe how to properly fuel motor vehicles and shall specifically prohibit the topping off of the motor vehicle fuel tank.

2.d An On-Board Refueling Vapor Recovery (ORVR) system can be used to replace the Stage II vapor recovery system provided that all vehicles filled by this emissions unit are equipped with ORVR. The ORVR system shall be used to capture and control gasoline vapors that are emitted during the vehicle fueling process. The ORVR shall consist of, but not be limited to, a special vehicle fuel tank, flow management valve, fluid control valve, one-way check valve and vapor canister.

III Monitoring and/or Recordkeeping

1. The permittee shall maintain records of the results of any leak checks, including, at a minimum, the following information for the Stage I vapor recovery system:

   a. Date of inspection.

   b. Findings (may indicate no leaks discovered or location, nature, and severity of each leak).

   c. Leak determination method.

   d. Corrective action (date each leak repaired and reasons for any repair interval in excess of 15 calendar days).

   e. Inspector's name and signature.

2. The permittee shall maintain records of the following information when operating the Stage II vapor recovery system:

   a. The results of any tests performed pursuant to the testing requirements specified in section A.V.3. of this permit.

   b. A log of the date and description of all repair and maintenance work performed or any other modifications made to the vapor control system.

   c. A copy of the most recent permit to operate application (including appendix) submitted to the Ohio EPA.

   d. A copy of the most recent permit to operate issued by the Ohio EPA.

   e. Proof of attendance and completion of the training required by the Ohio EPA for the operator or local manager of the gasoline dispensing facility.

f. Copies of all completed post test inspection forms.

3. The permittee shall maintain monthly records of the quantity of gasoline delivered to the facility, and shall calculate and record monthly the total quantity of gasoline delivered to the facility during each rolling, 12-month period.

4. When ORVR is used instead of Stage II vapor recovery, the permittee shall record all times during which a vehicle without ORVR was fueled at this emissions unit.

IV Reporting Requirements

1. Any leak from the Stage I vapor balance system or vapor control system that is not repaired within 15 days after identification shall be reported to the Director within 30 days after the repair is completed.

2. A comprehensive written report on the results of any tests performed in accordance with the requirements of this permit shall be submitted within 30 days following the completion of the tests.

3. The permittee shall submit quarterly deviation (excursion) reports that identify all records showing that the gasoline throughput, in gallons per rolling, 12-month period exceeds 1,925,000 gallons. The notification shall include a copy of such record.

4. When using the ORVR instead of Stage II vapor recovery, the permittee shall notify the Toledo Division of Environmental Services in writing of any record when a vehicle without ORVR was fueled at this emissions unit. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

Operate and maintain a Stage I vapor recovery system for gasoline storage tank fill losses.

Applicable Compliance Method:

Compliance shall be determined through the operational restrictions of section A.II.1 and the monitoring and record keeping requirements of section A.III.1.

1.b Emission Limitation:

Operate and maintain a Stage II or equivalent vapor recovery system for vehicle fill losses.

Applicable Compliance Method:

Compliance shall be determined through the operational restrictions of section A.II.2 and the monitoring and record keeping requirements of sections A.III.2. and A.III.4.

1.c Emission Limitation:

2.3 tons of VOC per rolling, 12-month period

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum rolling, 12-month gasoline throughput (1,925,000) by an emission factor of 2.4 lbs of VOC per 1000 gallons of gasoline and dividing by 2,000 lbs/ton. This emission factor is specified in the USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 5.2, Table 5.2-7 (dated 1/95). DaimlerChrysler Corporation may elect to establish a site specific emission factor based on EPA approved test procedures.

2.a Within 60 days of the utilization of the stage II vapor control system to comply with the control requirements of section A.I.2.a, or within 60 days of a modification to the vapor recovery system, the permittee shall perform and comply with the requirements of the following tests (or an alternate performance test(s) approved by the Ohio EPA) when operating a Stage II vapor recovery system for vehicle refueling:

i. A leak test shall be performed in accordance with the test procedures contained in paragraph (Q) of OAC rule 3745-21-10 to quantify the vapor tightness of the vapor control system. The vapor control system must comply with the leak rate criteria specified in the test procedures.

ii. A dynamic pressure performance test shall be performed in accordance with the test procedures contained in paragraph (R) of OAC rule 3745-21-10 to determine the pressure drop through the vapor control system at prescribed flow rates. The vapor recovery system must comply with the dynamic back pressures shown in the following table:

Nitrogen flowrate (scfh)	Maximum dynamic back pressure (inches of water)
40	0.16
60	0.35

80	0.62

2.b For purposes of section A.V.2.a, the modification of a vapor control system shall include the following:

i. Any change, such as the removal of components and the addition or removal of piping or fittings, which may cause the vapor control system to be incapable of maintaining an overall control efficiency of not less than 95 percent, by weight, for the VOC emissions.

ii. Any change which requires a permit to install pursuant to OAC rule 3745-31-02.

2.c Not later than 30 days prior to any tests required pursuant to sections A.V.2.a and A.V.2.d, the permittee shall submit a test notification to the Ohio EPA or its delegated local air agency. The test notification shall describe the proposed test methods and procedures, the time and the date of the tests, and the person who will be conducting the tests. Failure to submit such notification prior to the tests may result in the Ohio EPA's refusal to accept the results of the tests. Personnel from the Ohio EPA or its delegated local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information during the tests. After completion of any tests, the permittee shall complete a copy of the post test inspection form attached to this permit.

2.d If at any time during the duration of this permit the stage II vapor control system is utilized to comply with the control requirements of section A.I.2.a, then within 6 months of the expiration of this permit, the permittee shall repeat and demonstrate compliance with the requirements of the tests specified in section A.V.2.a.

3. The Director may require the permittee to perform other tests that have been authorized by the U.S. Environmental Protection Agency if such tests are necessary to demonstrate the adequacy of a vapor control system.

4. The permittee shall provide written notification to the Toledo Division of Environmental Services, if requesting an exemption from testing due to the use of an On-Board Refueling Vapor Recovery (ORVR) system in compliance with section A.II.2.d. of this permit. Any control device which is not tested due to this exemption, shall be tested within 60 days of returning to usage of the Stage II vapor recovery system.

5. Where it has been determined that the test procedures specified in section A.V.2.a. are not appropriate, alternate test procedures may be employed provided that written prior approval has been obtained from the Ohio EPA. Such modified test procedures may also be considered a significant modification that would be subject to the Title V permit modification requirements in paragraphs (C)(1) and (C)(3) of OAC rule 3745-77-08.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Gasoline Fill Stations (G003)
Activity Description: Gasoline dispensing operations with Stage II vapor control or ORVR control and gasoline AST with Stage I control, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Gasoline dispensing facility with a catalytic oxidizer type Stage II vapor recovery system and one 12,000-gallon gasoline storage tank, tank ID: No. 6 with a Stage I vapor recovery system; TNAP.	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	34.0 tpy of volatile organic compounds (VOC), and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	See sections A.I.2.b and A.I.2.c.
	OAC rule 3745-21-09(R)	See section A.I.2.d.
	OAC rule 3745-21-09(DDD)(4)(c)	See section A.I.2.d.

2. **Additional Terms and Conditions**

2.a The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 thru 20.

2.b The permittee shall not cause, allow, or permit the transfer of gasoline from a stationary storage tank into a motor vehicle unless all vapors displaced from the motor vehicle are vented to a Stage II vapor control system, or equivalent, which is designed and operated to maintain an overall control efficiency of not less than 90 percent, by weight, for VOC in the displaced vapors. The Stage II vapor control system shall employ only coaxial hoses, and the use of remote check valves shall be prohibited.

2.c The permittee shall not cause, allow or permit the transfer of gasoline in this emissions unit unless the following Stage I requirements are met:

i. Any stationary storage tank which stores gasoline at the gasoline dispensing facility is equipped with a submerged fill pipe; and

ii. For any transfer of gasoline from a delivery vessel to a stationary storage tank located at the gasoline dispensing facility, the vapors displaced from the stationary storage tank are processed by one of the following systems:

A. a vapor balance system which is designed and operated to route at least 90 percent by weight of the VOC in the displaced vapors to the delivery vessel and which is equipped with a means to prevent the discharge of displaced vapors from an unconnected vapor line; or

B. a vapor control system which is designed and operated to recover at least 90 percent by weight of the VOC in the displaced vapors.

2.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).

II Operational Restrictions

1. The permittee shall comply with the following operational restrictions for the Stage I vapor control system:

a. The vapor balance system shall be kept in good working order and shall be used at all times during the transfer of gasoline.

b. There shall be no leaks in the delivery vessel pressure/vacuum relief valves and hatch covers.

c. There shall be no leaks in the vapor lines or liquid lines during the transfer of gasoline.

d. The transfer of gasoline from a delivery vessel to a stationary storage tank shall be conducted by use of submerged fill into the storage tank. The submerged fill pipe(s) are to be installed so they are within six (6) inches of the bottom of the storage tank.

e. All fill caps shall be "in place" and clamped during normal storage conditions.

f. The permittee shall repair within 15 days any leak from the vapor balance system or vapor control system which is employed to meet the requirements of paragraph (R)(1) of OAC rule 3745-21-09 when such leak is equal to or greater than 100 percent of the lower explosive limit as propane, as determined under paragraph (K) of OAC rule 3745-21-10.

2.a When using a Stage II vapor control system, it shall be installed, operated and maintained in accordance with the manufacturer's specifications, and shall be free of the following defects:

i. Any component, that is required to be employed at all times, is absent or disconnected.

ii. A vapor hose is crimped or flattened such that the vapor passage is blocked, or the pressure drop through the vapor hose exceeds by a factor of two or more the requirements in section A.V.2.a.

iii. A nozzle boot is torn in one or more of the following manners:

A. A triangular-shaped or similar tear one half inch or more to a side, or a hole one half inch or more in length; and

B. A slit one inch or more in length.

iv. A faceplate or flexible cone is damaged in the following manner:

A. For balance nozzles and for nozzles for aspirator and educator assist type systems, the capability to achieve a seal with a fill pipe interface is affected for one fourth of the circumference of the faceplate (accumulated); and

B. For nozzles for vacuum assist-type systems, more than one fourth of the flexible cone is missing.

v. Nozzle shutoff mechanisms are malfunctioning in any manner.

vi. Vapor return lines, including such components as swivels, antirecirculation valves and underground piping are malfunctioning or are blocked, or restricted such that the pressure drop through the lines exceeds by a factor of two or more the requirements specified in section A.V.2.a.

vii. A vapor processing unit is inoperative or malfunctioning.

viii. A vacuum producing device is inoperative or malfunctioning.

ix. Pressure/vacuum relief valves, vapor check valves, or dry beaks are inoperative.

x. Any vapor recovery equipment is leaking liquid gasoline or gasoline vapors.

2.b Within 60 days of the utilization of the stage II vapor control system to comply with the control requirements of section A.I.2.a, the permittee shall have successfully completed the testing requirements contained in paragraph (DDD) (2) of OAC rule 3745-21-09, or an alternate test procedure approved by the Ohio EPA.

2.c Operating instructions for the vapor control system shall be conspicuously posted in each gasoline dispensing area. The operating instructions shall clearly describe how to properly fuel motor vehicles and shall specifically prohibit the topping off of the motor vehicle fuel tank.

2.d An On-Board Refueling Vapor Recovery (ORVR) system can be used to replace the Stage II vapor recovery system provided that all vehicles filled by this emissions unit are equipped with ORVR. The ORVR system shall be used to capture and control gasoline vapors that are emitted during the vehicle fueling process. The ORVR shall consist of, but not be limited to, a special vehicle fuel tank, flow management valve, fluid control valve, one-way check valve and vapor canister.

III Monitoring and/or Recordkeeping

1. The permittee shall maintain records of the results of any leak checks, including, at a minimum, the following information for the Stage I vapor recovery system:

   a. Date of inspection.

   b. Findings (may indicate no leaks discovered or location, nature, and severity of each leak).

   c. Leak determination method.

   d. Corrective action (date each leak repaired and reasons for any repair interval in excess of 15 calendar days).

   e. Inspector's name and signature.

2. The permittee shall maintain records of the following information when operating the Stage II vapor recovery system:

   a. The results of any tests performed pursuant to the testing requirements specified in section A.V.3 of this permit.

   b. A log of the date and description of all repair and maintenance work performed or any other modifications made to the vapor control system.

   c. A copy of the most recent permit to operate application (including appendix) submitted to the Ohio EPA.

   d. A copy of the most recent permit to operate issued by the Ohio EPA.

   e. Proof of attendance and completion of the training required by the Ohio EPA for the operator or local manager of the gasoline dispensing facility.

f. Copies of all completed post test inspection forms.

3. The permittee shall maintain monthly records of the quantity of gasoline delivered to the facility, and shall calculate and record monthly:

   a. the total quantity of gasoline delivered to the facility during each rolling, 12-month period; and

   b. the rolling, 12-month total emissions of VOC from this emissions unit.

4. When ORVR is used instead of Stage II vapor recovery, the permittee shall record all times during which a vehicle without ORVR was fueled at this emissions unit.

IV Reporting Requirements

1. Any leak from the Stage I vapor balance system or vapor control system that is not repaired within 15 days after identification shall be reported to the Director within 30 days after the repair is completed.

2. A comprehensive written report on the results of any tests performed in accordance with the requirements of this permit shall be submitted within 30 days following the completion of the tests.

3. The permittee shall submit quarterly deviation (excursion) reports that identify all records showing that the annual emissions of VOC exceeds the applicable limitation. The notification shall include a copy of such record.

4. When using the ORVR instead of Stage II vapor recovery, the permittee shall notify the Toledo Division of Environmental Services in writing of any record when a vehicle without ORVR was fueled at this emissions unit. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

Operate and maintain a Stage I vapor recovery system for gasoline storage tank fill losses.

Applicable Compliance Method:

Compliance shall be determined through the operational restrictions of section A.II.1 and the monitoring and record keeping requirements of section A.III.1.

1.b Emission Limitation:

Operate and maintain a Stage II or equivalent vapor recovery system for vehicle fill losses.

Applicable Compliance Method:

Compliance shall be determined through the operational restrictions of section A.II.2 and the monitoring and record keeping requirements of sections A.III.2 and A.III.4.

1.c Emission Limitation:

34.0 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated by the monitoring and record keeping requirements of section A.III.3 and by multiplying the monthly gasoline throughput by an emission factor of 3.1 lbs of VOC per 1000 gallons of gasoline, and then dividing by 2,000 lbs/ton. This emission factor is specified in the USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 5.2, Table 5.2-7 (dated 1/95). DaimlerChrysler Corporation may elect to establish a site specific emission factor based on EPA approved test procedures.

2.a Within 60 days of the issuance of this permit or within 60 days of a modification to the vapor recovery system, the permittee shall perform and comply with the requirements of the following tests (or an alternate performance test(s) approved by the Ohio EPA) when operating a Stage II vapor recovery system for vehicle refueling:

i. A leak test shall be performed in accordance with the test procedures contained in paragraph (Q) of OAC rule 3745-21-10 to quantify the vapor tightness of the vapor control system. The vapor control system must comply with the leak rate criteria specified in the test procedures.

ii. A dynamic pressure performance test shall be performed in accordance with the test procedures contained in paragraph (R) of OAC rule 3745-21-10 to determine the pressure drop through the vapor control system at prescribed flow rates. The vapor recovery system must comply with the dynamic back pressures shown in the following table:

Nitrogen flowrate (scfh)	Maximum dynamic back pressure (inches of water)

40	0.16
60	0.35
80	0.62

2.b For purposes of section A.V.2.a, the modification of a vapor control system shall include the following:

i. Any change, such as the removal of components and the addition or removal of piping or fittings, which may cause the vapor control system to be incapable of maintaining an overall control efficiency of not less than 95 percent, by weight, for the VOC emissions.

ii. Any change which requires a permit to install pursuant to OAC rule 3745-31-02.

2.c Not later than 30 days prior to any tests required pursuant to sections A.V.2.a and A.V.2.d, the permittee shall submit a test notification to the Ohio EPA or its delegated local air agency. The test notification shall describe the proposed test methods and procedures, the time and the date of the tests, and the person who will be conducting the tests. Failure to submit such notification prior to the tests may result in the Ohio EPA's refusal to accept the results of the tests. Personnel from the Ohio EPA or its delegated local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information during the tests. After completion of any tests, the permittee shall complete a copy of the post test inspection form attached to this permit.

2.d If at any time during the duration of this permit the stage II vapor control system is utilized to comply with the control requirements of section A.I.2.a, then within 6 months of the expiration of this permit, the permittee shall repeat and demonstrate compliance with the requirements of the tests specified in section A.V.2.a.

3. The Director may require the permittee to perform other tests that have been authorized by the U.S. Environmental Protection Agency if such tests are necessary to demonstrate the adequacy of a vapor control system.

4. The permittee shall provide written notification to the Toledo Division of Environmental Services, if requesting an exemption from testing due to the use of an On-Board Refueling Vapor Recovery (ORVR) system in compliance with section A.II.2.d of this permit. Any control device which is not tested due to this exemption, shall be tested within 60 days of returning to usage of the Stage II vapor recovery system.

5. Where it has been determined that the test procedures specified in section A.V.2.a. are not appropriate, alternate test procedures may be employed provided that written prior approval has been obtained from the Ohio EPA. Such modified test procedures may also be considered a significant modification that would be subject to the Title V permit modification requirements in paragraphs (C)(1) and (C)(3) of OAC rule 3745-77-08.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Clean Shop Unit #1 (K008)
Activity Description: Emission unit combined to form Z009, Stickney

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Automotive off-line repair booth w/ dry filtration, activated carbon filters and low temperature infra-red oven	OAC rule 3745-31-05(A)(3) (PTI 04-747)	38.4 lbs/day of volatile organic compounds (VOC) for emissions units K008, K009, and K010 combined, and see section A.I.2.a.
	OAC rule 3745-31-05(D)	6.0 tpy of VOC as a rolling, 12-month summation for emissions units K008, K009, and K010, combined
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(A)(2)	0.551 lb/hr of particulate emissions (as PM10)
	OAC rule 3745-21-09(C)(1)(d)	4.8 lbs of VOC/gallon of coating, excluding water and exempt solvents

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-17-11(A)(2), OAC rule 3745-21-09(C)(1)(d) and OAC rule 3745-31-05(D).

2.b The permittee is not claiming any emission reduction credits from the activated carbon filters.

II Operational Restrictions

1. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

2. The permittee shall comply with the emission limitation for VOC by the exclusive use of compliance coatings, i.e., each coating utilized shall comply with the applicable emissions limitation as applied.

III Monitoring and/or Recordkeeping

1. The permittee shall maintain daily records that document any periods when the dry filtration system was not in service when the emissions unit was in operation.

2. The permittee shall collect and record the following information each month for the line:

   a. the name and identification number of each coating, as applied; and

   b. the VOC content of each coating (excluding water and exempt solvents), as applied.

3. The permittee shall collect and record the following information each month for emissions units K008, K009 and K010, combined, for the purpose of determining average daily and annual VOC emissions:

   a. the name and identification number of each coating, as applied;

   b. the VOC content of each coating (excluding water and exempt solvents), as applied;

   c. the number of gallons (excluding water and exempt solvents) of each coating employed;

   d. the name and identification of each cleanup material employed;

   e. the VOC content of each cleanup material, in pounds per gallon;

   f. the number of gallons of each cleanup material employed;

g. the total VOC emissions from all coatings and cleanup materials employed, in pounds or tons;

h. the rolling 12-month summation of emissions from all coatings and cleanup materials employed, in tons per year;

i. the number of days in which one or more of the emissions units was in operation; and

j. the daily average VOC emissions rate for emissions units K008, K009 and K010 combined, (g)/(i), in pounds per day.

IV Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record when the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.

2. The permittee shall notify the Toledo Division of Environmental Services in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days following the end of the calendar month.

3. The permittee shall submit quarterly deviation (excursion) reports that identify all records showing that the pounds of VOC total per day or the tons of VOC total per rolling, 12-month period for K008 through K010 exceeds the applicable limitations. The notification shall include a copy of such record.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% opacity as a 6-minute average, except as provided by the rule, from the booth

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.551 lb/hr of particulate emissions

Applicable Compliance Method:

To determine the actual worst case particulate emission rate, the following equation shall be used:

E = (M) x (1-TE) x (1-CE)

where:

E = particulate emission rate (as PM10 in lbs/hr)

M = maximum coating solids usage rate (lbs/hr)

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used

CE = control efficiency of the control equipment - If more than one piece of control equipment is used in series, the equation should be multiplied by additional (1-CE) terms for each additional piece of equipment.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Methods 201 and 202 of 40 CFR Part 51, Appendix M.

1.c Emission Limitation:

4.8 lbs VOC/gal of coating, excluding water and exempt solvents

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.2. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services. If, pursuant to Method 24, 40 CFR Part 60, Appendix A, the permittee determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

1.d Emission Limitation:

38.4 lbs/day of VOC for emissions units K008, K009, and K010, combined

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the monitoring and record keeping requirements of section A.III.3.

1.e Emission Limitation:

6.0 tpy of VOC as a rolling, 12-month summation for emissions units K008, K009, and K010, combined

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the monitoring and record keeping requirements of section A.III.3.

VI Miscellaneous Requirements

1. Should any coating formulations cause a nuisance odor, or process changes cause an increase in the quantity or intensity of odors emitted from this facility, as determined by the Toledo Division of Environmental Services, the company shall take corrective action to reduce the impact of the odors. The time schedule for the corrective action shall be approved by the Toledo Division of Environmental Services.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Clean Shop Unit #2 (K009)
Activity Description: Emission unit combined to form Z009, Stickney

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Automotive off-line repair booth w/ dry filtration, activated carbon filters and low temperature infra-red oven	OAC rule 3745-31-05(A)(3) (PTI 04-747)	38.4 lbs/day of volatile organic compounds (VOC) for emissions units K008, K009, and K010 combined, and see section A.I.2.a.
	OAC rule 3745-31-05(D)	6.0 tpy of VOC as a rolling, 12-month summation for emissions units K008, K009, and K010, combined
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(A)(2)	0.551 lb/hr of particulate emissions (as PM10)
	OAC rule 3745-21-09(C)(1)(d)	4.8 lbs of VOC/gallon of coating, excluding water and exempt solvents

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-17-11(A)(2), OAC rule 3745-21-09(C)(1)(d) and OAC rule 3745-31-05(D).

2.b The permittee is not claiming any emission reduction credits from the activated carbon filters.

II Operational Restrictions

1. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

2. The permittee shall comply with the emission limitation for VOC by the exclusive use of compliance coatings, i.e., each coating utilized shall comply with the applicable emissions limitation as applied.

III Monitoring and/or Recordkeeping

1. The permittee shall maintain daily records that document any periods when the dry filtration system was not in service when the emissions unit was in operation.

2. The permittee shall collect and record the following information each month for the line:

   a. the name and identification number of each coating, as applied; and

   b. the VOC content of each coating (excluding water and exempt solvents), as applied.

3. The permittee shall collect and record the following information each month for emissions units K008, K009 and K010, combined, for the purpose of determining average daily and annual VOC emissions:

   a. the name and identification number of each coating, as applied;

   b. the VOC content of each coating (excluding water and exempt solvents), as applied;

   c. the number of gallons (excluding water and exempt solvents) of each coating employed;

   d. the name and identification of each cleanup material employed;

   e. the VOC content of each cleanup material, in pounds per gallon;

   f. the number of gallons of each cleanup material employed;

g. the total VOC emissions from all coatings and cleanup materials employed, in pounds or tons;

h. the rolling 12-month summation of emissions from all coatings and cleanup materials employed, in tons per year;

i. the number of days in which one or more of the emissions units was in operation; and

j. the daily average VOC emissions rate for emissions units K008, K009 and K010 combined, (g)/(i), in pounds per day.

IV Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record when the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.

2. The permittee shall notify the Toledo Division of Environmental Services in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days following the end of the calendar month.

3. The permittee shall submit quarterly deviation (excursion) reports that identify all records showing that the pounds of VOC total per day or the tons of VOC total per rolling, 12-month period for K008 through K010 exceeds the applicable limitations. The notification shall include a copy of such record.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% opacity as a 6-minute average, except as provided by the rule, from the booth

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.551 lb/hr of particulate emissions

Applicable Compliance Method:

To determine the actual worst case particulate emission rate, the following equation shall be used:

E = (M) x (1-TE) x (1-CE)

where:

E = particulate emission rate (as PM10 in lbs/hr)

M = maximum coating solids usage rate (lbs/hr)

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used

CE = control efficiency of the control equipment - If more than one piece of control equipment is used in series, the equation should be multiplied by additional (1-CE) terms for each additional piece of equipment.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Methods 201 and 202 of 40 CFR Part 51, Appendix M.

1.c Emission Limitation:

4.8 lbs VOC/gal of coating, excluding water and exempt solvents

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.2. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services. If, pursuant to Method 24, 40 CFR Part 60, Appendix A, the permittee determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

1.d Emission Limitation:

38.4 lbs/day of VOC for emissions units K008, K009, and K010, combined

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the monitoring and record keeping requirements of section A.III.3.

1.e Emission Limitation:

6.0 tpy of VOC as a rolling, 12-month summation for emissions units K008, K009, and K010, combined

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the monitoring and record keeping requirements of section A.III.3.

VI Miscellaneous Requirements

1. Should any coating formulations cause a nuisance odor, or process changes cause an increase in the quantity or intensity of odors emitted from this facility, as determined by the Toledo Division of Environmental Services, the company shall take corrective action to reduce the impact of the odors. The time schedule for the corrective action shall be approved by the Toledo Division of Environmental Services.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Clean Shop Unit #3 (K010)
Activity Description: Emission unit combined to form Z009, Stickney

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Automotive off-line repair booth w/ dry filtration, activated carbon filters and low temperature infra-red oven	OAC rule 3745-31-05(A)(3) (PTI 04-747)	38.4 lbs/day of volatile organic compounds (VOC) for emissions units K008, K009, and K010 combined, and see section A.I.2.a.
	OAC rule 3745-31-05(D)	6.0 tpy of VOC as a rolling, 12-month summation for emissions units K008, K009, and K010, combined
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(A)(2)	0.551 lb/hr of particulate emissions (as PM10)
	OAC rule 3745-21-09(C)(1)(d)	4.8 lbs of VOC/gallon of coating, excluding water and exempt solvents

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-17-11(A)(2), OAC rule 3745-21-09(C)(1)(d) and OAC rule 3745-31-05(D).

2.b The permittee is not claiming any emission reduction credits from the activated carbon filters.

II Operational Restrictions

1. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

2. The permittee shall comply with the emission limitation for VOC by the exclusive use of compliance coatings, i.e., each coating utilized shall comply with the applicable emissions limitation as applied.

III Monitoring and/or Recordkeeping

1. The permittee shall maintain daily records that document any periods when the dry filtration system was not in service when the emissions unit was in operation.

2. The permittee shall collect and record the following information each month for the line:

   a. the name and identification number of each coating, as applied; and

   b. the VOC content of each coating (excluding water and exempt solvents), as applied.

3. The permittee shall collect and record the following information each month for emissions units K008, K009 and K010, combined, for the purpose of determining average daily and annual VOC emissions:

   a. the name and identification number of each coating, as applied;

   b. the VOC content of each coating (excluding water and exempt solvents), as applied;

   c. the number of gallons (excluding water and exempt solvents) of each coating employed;

   d. the name and identification of each cleanup material employed;

   e. the VOC content of each cleanup material, in pounds per gallon;

   f. the number of gallons of each cleanup material employed;

g. the total VOC emissions from all coatings and cleanup materials employed, in pounds or tons;

h. the rolling 12-month summation of emissions from all coatings and cleanup materials employed, in tons per year;

i. the number of days in which one or more of the emissions units was in operation; and

j. the daily average VOC emissions rate for emissions units K008, K009 and K010 combined, (g)/(i), in pounds per day.

IV Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record when the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.

2. The permittee shall notify the Toledo Division of Environmental Services in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days following the end of the calendar month.

3. The permittee shall submit quarterly deviation (excursion) reports that identify all records showing that the pounds of VOC total per day or the tons of VOC total per rolling, 12-month period for K008 through K010 exceeds the applicable limitations. The notification shall include a copy of such record.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

20% opacity as a 6-minute average, except as provided by the rule, from the booth

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.551 lb/hr of particulate emissions

Applicable Compliance Method:

To determine the actual worst case particulate emission rate, the following equation shall be used:

E = (M) x (1-TE) x (1-CE)

where:

E = particulate emission rate (as PM10 in lbs/hr)

M = maximum coating solids usage rate (lbs/hr)

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used

CE = control efficiency of the control equipment - If more than one piece of control equipment is used in series, the equation should be multiplied by additional (1-CE) terms for each additional piece of equipment.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Methods 201 and 202 of 40 CFR Part 51, Appendix M.

1.c Emission Limitation:

4.8 lbs VOC/gal of coating, excluding water and exempt solvents

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.2. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services. If, pursuant to Method 24, 40 CFR Part 60, Appendix A, the permittee determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

1.d Emission Limitation:

38.4 lbs/day of VOC for emissions units K008, K009, and K010, combined

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the monitoring and record keeping requirements of section A.III.3.

1.e Emission Limitation:

6.0 tpy of VOC as a rolling, 12-month summation for emissions units K008, K009, and K010, combined

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the monitoring and record keeping requirements of section A.III.3.

VI Miscellaneous Requirements

1. Should any coating formulations cause a nuisance odor, or process changes cause an increase in the quantity or intensity of odors emitted from this facility, as determined by the Toledo Division of Environmental Services, the company shall take corrective action to reduce the impact of the odors. The time schedule for the corrective action shall be approved by the Toledo Division of Environmental Services.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Sound Deadener Booth (K016)
Activity Description: Sound deadener applications (waterborne coatings), Stickney

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Sound deadener spray booth with dry filtration system	OAC rule 3745-31-05(A)(3) (PTI 04-761)	1.4 lbs/hr of particulate emissions, 6.13 tpy of particulate emissions, 0.0 lb of volatile organic compounds (VOC)/gallon of coating, excluding water and exempt solvents, and see section A.I.2.a.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(1)	See section A.I.2.b.
	OAC rule 3745-21-09(U)(1)(d)	See section A.I.2.b.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).

2.b The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

II Operational Restrictions

1. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

2. The permittee shall comply with the emissions limitation for VOC by the exclusive use of compliance coatings, i.e., each coating utilized shall comply with the applicable emissions limitation as applied.

III Monitoring and/or Recordkeeping

1. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when this emissions unit was in operation.

2. The permittee shall collect and record the following information each month for the line:

   a. the name and identification number of each coating, as applied; and

   b. the VOC content of each coating (excluding water and exempt solvents), as applied.

   Formulation data may be used.

IV Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record showing that the dry filtration system was not in service when the emissions unit was in operation.

2. The permittee shall notify the Toledo Division of Environmental Services in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days following the end of the calendar month.

3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

1.4 lbs/hr of particulate emissions

Applicable Compliance Method:

Compliance shall be determined by the following equation:

ER=CA / CD X SC X OSF X (1-CE)

where:

ER = emission rate, in lbs/hr;
CA = coating application rate, in lbs of coating/hr;
CD = coating density, in lbs of coating/gallon of coating;
SC = solids content of the coating, in lbs of solids/gal of coating;
OSF = overspray factor (.20 lb of overspray solids/lb of solids sprayed for this emissions unit); and
CE = control efficiency of filter (.98 for this emissions unit).

If required, the permittee shall also demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

6.13 tpy of particulate emissions

Applicable Compliance Method:

This emission limitation was developed by multiplying the hourly allowable emission rate (1.4 lbs/hr), by 8,760 hrs/yr, and then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly allowable limit, compliance shall also be shown with this emission limitation.

1.c Emission Limitation:

0.0 pound of VOC per gallon of coating, excluding water and exempt solvents, for coatings dried at temperatures not exceeding 200 degrees Fahrenheit

Applicable Compliance Method:

Compliance may be determined through the monitoring and record keeping requirements of section A.III.2. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services. If, pursuant to

Method 24, 40 CFR Part 60, Appendix A, the permittee determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

1.d Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance may be determined through the monitoring and record keeping requirements of section A.III.1. If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Repair Spoven #1 (K018)
Activity Description: Emission unit combined to form Z009, Stickney

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Automotive off-line repair (low temperature bake) Spoven (combination spray booth and electric oven) w/ dry filtration	OAC rule 3745-31-05(A)(3) (PTI 04-830)	9.8 lbs/day of volatile organic compounds (VOC) 0.12 ton/month of VOC, and see section A.I.2.a.
	OAC rule 3745-31-05(D)	1.5 tons of VOC/rolling, 12-month period.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(A)(2)	0.551 lb/hr of particulate emissions.
	OAC rule 3745-21-09(C)(1)(d)	4.8 lbs of VOC/gallon of coating, excluding water and exempt solvents.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1), 3745-17-11(A)(2), 3745-21-09(C)(1)(d), and 3745-31-05(D).

II Operational Restrictions

1. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

2. The permittee shall comply with the emission limitation for VOC by the exclusive use of compliance coatings, i.e., each coating utilized shall comply with the applicable emission limitation as applied.

3. The coating usage shall not exceed 51 gallons per month in this emissions unit.

III Monitoring and/or Recordkeeping

1. The permittee shall maintain daily records that document any periods when the dry filtration system was not in service when the emissions unit was in operation.

2. The permittee shall collect and record the following information each month for the line:

   a. the name and identification number of each coating, as applied; and

   b. the VOC content of each coating (excluding water and exempt solvents), as applied.

3. The permittee shall collect and record the following information each month for the purpose of determining average daily, monthly and annual VOC emissions :

   a. the name and identification number of each coating, as applied;

   b. the VOC content of each coating (excluding water and exempt solvents), as applied;

   c. the number of gallons (excluding water and exempt solvents) of each coating employed;

   d. the total number of gallons (excluding water and exempt solvents) of all coatings employed, calculated as a summation of the quantities recorded in (c) above;

   e. the name and identification of each cleanup material employed;

   f. the VOC content of each cleanup material, in pounds per gallon;

   g. the number of gallons of each cleanup material employed;

h. the total VOC emissions from all coatings and cleanup materials employed, in tons per month;

i. the rolling 12-month summation of emissions from all coatings and cleanup materials employed, in tons per year;

j. the number of days the emissions units was in operation; and

k. the daily average VOC emissions rate, (h)/(j), in pounds per day.

IV Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record when the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.

2. The permittee shall notify the Toledo Division of Environmental Services in writing of any record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the exceedance occurs.

3. The permittee shall submit quarterly deviation (excursion) reports that identify all records showing that the coating usage, lbs of VOC/day, tons of VOC/month, and/or tons of VOC/rolling, 12-month period exceeds the applicable limitation. The notification shall include a copy of such record.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

0.551 pound of particulate emissions per hour.

Applicable Compliance Method:

To determine the actual worst case particulate emission rate, the following equation shall be used:

E = (M) x (1-TE) x (1-CE)

where:

E = particulate emission rate (lbs/hr)

M = maximum coating solids usage rate (lbs/hr)

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used

CE = control efficiency of the control equipment - If more than one piece of control equipment is used in series, the equation should be multiplied by additional (1-CE) terms for each additional piece of equipment.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

1.b Emission Limitation:

20% opacity as a 6-minute average, except as provided by the rule

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

4.8 lbs VOC/gallon of coating, excluding water and exempt solvents

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.2. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule(s) 3745-21-09(C)(2) and 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services. If, pursuant to Method 24, 40 CFR Part 60, Appendix A, the permittee determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

1.d Emission Limitation:

9.8 lbs/day of VOC

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the record keeping requirements of section A.III.2.

1.e Emission Limitation:

0.12 ton/month of VOC

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the record keeping requirements of section A.III.2.

1.f Emission Limitation:

1.5 tons of VOC per rolling, 12-month period

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the record keeping requirements of section A.III.2.

VI Miscellaneous Requirements

1. Should any coating formulations cause a nuisance odor, or process changes cause an increase in the quantity or intensity of odors emitted from this facility, as determined by the Toledo Division of Environmental Services, the company shall take corrective action to reduce the impact of the odors. The time schedule for the corrective action shall be approved by the Toledo Division of Environmental Services.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Repair Spoven #2 (K019)
Activity Description: Emission unit combined to form Z009, Stickney

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Automotive off-line repair (low temperature bake) Spoven (combination spray booth and electric oven) w/ dry filtration	OAC rule 3745-31-05(A)(3) (PTI 04-830)	9.8 lbs/day of volatile organic compounds (VOC) 0.12 ton/month of VOC, and see section A.I.2.a.
	OAC rule 3745-31-05(D)	1.5 tons of VOC/rolling, 12-month period.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(A)(2)	0.551 lb/hr of particulate emissions.
	OAC rule 3745-21-09(C)(1)(d)	4.8 lbs of VOC/gallon of coating, excluding water and exempt solvents.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1), 3745-17-11(A)(2), 3745-21-09(C)(1)(d), and 3745-31-05(D).

II Operational Restrictions

1. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

2. The permittee shall comply with the emission limitation for VOC by the exclusive use of compliance coatings, i.e., each coating utilized shall comply with the applicable emission limitation as applied.

3. The coating usage shall not exceed 51 gallons per month in this emissions unit.

III Monitoring and/or Recordkeeping

1. The permittee shall maintain daily records that document any periods when the dry filtration system was not in service when the emissions unit was in operation.

2. The permittee shall collect and record the following information each month for the line:

   a. the name and identification number of each coating, as applied; and

   b. the VOC content of each coating (excluding water and exempt solvents), as applied.

3. The permittee shall collect and record the following information each month for the purpose of determining average daily, monthly and annual VOC emissions :

   a. the name and identification number of each coating, as applied;

   b. the VOC content of each coating (excluding water and exempt solvents), as applied;

   c. the number of gallons (excluding water and exempt solvents) of each coating employed;

   d. the total number of gallons (excluding water and exempt solvents) of all coatings employed, calculated as a summation of the quantities recorded in (c) above;

   e. the name and identification of each cleanup material employed;

   f. the VOC content of each cleanup material, in pounds per gallon;

   g. the number of gallons of each cleanup material employed;

h. the total VOC emissions from all coatings and cleanup materials employed, in tons per month;

i. the rolling 12-month summation of emissions from all coatings and cleanup materials employed, in tons per year;

j. the number of days the emissions units was in operation; and

k. the daily average VOC emissions rate, (h)/(j), in pounds per day.

IV Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record when the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.

2. The permittee shall notify the Toledo Division of Environmental Services in writing of any record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the exceedance occurs.

3. The permittee shall submit quarterly deviation (excursion) reports that identify all records showing that the coating usage, lbs of VOC/day, tons of VOC/month, and/or tons of VOC/rolling, 12-month period exceeds the applicable limitation. The notification shall include a copy of such record.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

0.551 pound of particulate emissions per hour.

Applicable Compliance Method:

To determine the actual worst case particulate emission rate, the following equation shall be used:

E = (M) x (1-TE) x (1-CE)

where:

E = particulate emission rate (lbs/hr)

M = maximum coating solids usage rate (lbs/hr)

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used

CE = control efficiency of the control equipment - If more than one piece of control equipment is used in series, the equation should be multiplied by additional (1-CE) terms for each additional piece of equipment.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

1.b Emission Limitation:

20% opacity as a 6-minute average, except as provided by the rule

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.c Emission Limitation:

4.8 lbs VOC/gallon of coating, excluding water and exempt solvents

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.2. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule(s) 3745-21-09(C)(2) and 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services. If, pursuant to Method 24, 40 CFR Part 60, Appendix A, the permittee determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

1.d Emission Limitation:

9.8 lbs/day of VOC

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the record keeping requirements of section A.III.3.

1.e Emission Limitation:

0.12 ton/month of VOC

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the record keeping requirements of section A.III.3.

1.f Emission Limitation:

1.5 tons of VOC per rolling, 12-month period

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the record keeping requirements of section A.III.3.

VI Miscellaneous Requirements

1. Should any coating formulations cause a nuisance odor, or process changes cause an increase in the quantity or intensity of odors emitted from this facility, as determined by the Toledo Division of Environmental Services, the company shall take corrective action to reduce the impact of the odors. The time schedule for the corrective action shall be approved by the Toledo Division of Environmental Services.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: E-Coat (K021)
Activity Description: Electrocoat dip tank and ovens, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Electrodeposition (E-Coat) prime coat of automobile bodies with regenerative thermal oxidizer (RTO) on oven exhaust	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	52.01 tons of volatile organic compounds (VOC)/rolling, 12-month period, 5% opacity as a 6-minute average from the RTO stack, and see sections A.I.2.a and A.I.2.b.
	OAC rules 3745-31-10 thru 20 (PTI 04-01102)	0.23 lb of VOC/gallon of applied coating solids.
	OAC rule 3745-21-09(C)(1)(a)(ii) thru (iv)	See section A.I.2.c.
	40 CFR Part 60, Subpart MM	See section A.I.2.c.
26.0 mmBtu/hr indirect fired, natural gas drying oven combustion emissions	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	9.5 tpy of carbon monoxide (CO), 13 tpy of nitrogen oxides (NOx), 0.64 tpy of particulate emissions as PM10, 0.07 tpy of sulfur dioxide (SO2), 0.62 tpy of VOC,

	5% opacity as a 6-minute average from each oven combustion stack, and
OAC rule 3745-31-10 thru 20 (PTI 04-01102)	see section A.I.2.d.
OAC rule 3745-17-07(A)(1)	0.083 lb of CO/mmBtu of actual heat input, 0.100 lb of NOx/mmBtu of actual heat input, 0.0056 lb of PM10/mmBtu of actual heat input, 0.0006 lb of SO2/mmBtu of actual heat input, and 0.0054 lb of VOC/mmBtu of actual heat input.
OAC rule 3745-17-10(B)(1)	See section A.I.2.c.
OAC rule 3745-18-06(A)	See section A.I.2.c.
OAC rule 3745-23-06(B)	See section A.I.2.e.
	See section A.I.2.f.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 thru 20.

2.b The permittee shall operate and maintain a thermal incinerator, with a 100 percent capture efficiency and a minimum of 95 percent control efficiency, to control VOC emissions from the drying oven. The thermal incinerator shall be operated and maintained in accordance with the manufacturer's recommendations.

2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.d The requirements of this rule also include compliance with the requirements of OAC rules 3745-18-06(A), 3745-23-06(B), and 3745-31-10 thru 20.

2.e OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than

950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

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 04-01102.

II Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the incinerator is in operation as a VOC control device for emissions fee or compliance purposes, shall not be below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

2. The permitee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the firebox of the thermal incinerator when the incinerator is in operation. Each temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications, with any modifications deemed necessary by the permittee and approved by the Toledo Division of Environmental Services. The device shall have an accuracy of the greater of 0.75 percent of the temperature being measured expressed in degrees Celsius or 2.5 Celsius degrees. Each temperature measurement device shall be equipped with a recording device so that a permanent record is produced. The temperature monitor and recorder shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations.

2. The permittee shall collect and record the following information for each month for the coating line and control equipment:

   a. the name and identification number of each coating, as applied;

   b. the mass of VOC per volume of coating solids, as applied, the volume solids content, as applied, and the volume, as applied, of each coating;

c. the maximum VOC content (in mass of VOC per volume of applied coating solids) or the daily volume-weighted average VOC content (in mass of VOC per volume of applied coating solids) of all the coatings;

d. the calculated, controlled VOC emission rate, in mass of VOC per volume of applied coating solids. The controlled VOC emission rate shall be calculated using (i) either the maximum VOC content or the daily volume-weighted VOC content recorded in accordance with section A.III.2.c above and (ii) the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance;

e. the calculated, controlled VOC emissions, in tons of VOC/month and tons of VOC/rolling, 12-month period. The controlled VOC emissions shall be calculated using the controlled VOC emission rate in section A.III.2.d above and the volume solids content per month from section A.III.2.b above and a factor of 2,000 lbs/ton;

f. a log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit; and

g. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.

Alternate, equivalent record keeping methods may be used upon written approval by the Toledo Division of Environmental Services.

3. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

4. The permittee shall comply with the applicable monitoring and record keeping requirements in 40 CFR Part 60.394 and 60.395.

IV Reporting Requirements

1. The permittee shall submit quarterly temperature deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance. The permittee shall also report every 3-hour period during which the average temperature measured is more than 28 Celsius degrees (50 degrees Fahrenheit) less than the average temperature during the most recent control device performance test.

   If no such periods occur, the owner or operator shall submit a negative report.

2. The permittee shall submit quarterly deviation (excursion) reports that identify all records showing that the tons of VOC/rolling, 12-month period exceeds the applicable limitation. The notification shall include a copy of such record.

3. The permittee shall submit quarterly deviation (excursion) reports that identify all monthly records showing that the calculated, controlled VOC emission rate exceeds the applicable mass of VOC per volume of applied coating solids limitation. The notification shall include a copy of such record.

4. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

5. The permittee shall comply with the applicable reporting requirements in 40 CFR Part 60.395.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

0.23 lb of VOC/gallon of applied coating solids

Applicable Compliance Method:

The permittee shall use the procedures in 40 CFR Part 60.393 for determining the monthly volume-weighted average mass of VOC emitted per volume of applied solids.

1.b Emission Limitation:

52.01 tons of VOC/rolling, 12-month period

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the record keeping requirements of section A.III.4.

1.c Emission Limitation:

5% opacity as a 6-minute average from the RTO stack

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.d Emission Limitation:

100 percent capture efficiency and a minimum of 95 percent control efficiency from the RTO.

Applicable Compliance Method:

If required, the permittee shall perform additional emission tests, conducted in accordance with USEPA Method 25 of 40 CFR Part 60, Appendix A, USEPA Methods 204 through 204F of 40 CFR Part 51, Appendix M, and the methods and procedures of OAC rule 3745-21-10(C).

1.e Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.f Emission Limitation:

9.5 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (26.0 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.g Emission Limitation:

0.100 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.h Emission Limitation:

13 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.100 lb/mmBtu) by the maximum fuel heat input rate (26.0 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.i Emission Limitation:

0.0056 lb of PM10/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0056 lb PM10/mmBtu ((5.7 lb PM/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Methods 201 and 202 of 40 CFR Part 51, Appendix M, and procedures specified in OAC rule 3745-17-03(B)(9). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.j Emission Limitation:

0.64 tpy of PM10

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable PM10 emission limitation (0.0056 lb PM10/mmBtu) by the maximum fuel heat input rate (26.0 mmBtu/hour), and by the

maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.k Emission Limitation:

0.0006 lb of SO2/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0006 lb SO2/mmBtu ((0.6 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98, or OAC rule 3745-18-04(G)(3). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 6 of 40 CFR Part 60 Appendix A, using the methods and procedures specified in OAC rule 3745-18-04. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.l Emission Limitation:

0.07 tpy of SO2

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable SO2 emission limitation (of 0.0006 lb/mmBtu) by the maximum fuel heat input rate (26.0 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.m Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.n Emission Limitation:

0.62 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (26.0 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.o Emission Limitation:

5% opacity as a 6-minute average from each oven combustion stack

Applicable Compliance Method:

If required, compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

VI Miscellaneous Requirements

1. Should any coating formulations cause a nuisance odor, or process changes cause an increase in the quantity or intensity of odors emitted from this facility, as determined by the Toledo Division of Environmental Services, the company shall take corrective action to reduce the impact of the odors. The time schedule for the corrective action shall be approved by the Toledo Division of Environmental Services.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Powder Anti-chip (K022)
Activity Description: Powder Anti-chip booth and oven, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Electrostatic powder anti-chip guidecoat operation, as defined in 40 CFR Part 60, Subpart MM, with particulate filtration for overspray, discharging within the building	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	3.25 tons of volatile organic compounds (VOC) per rolling, 12-month period, and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20 (PTI 04-01102)	See section A.I.2.b.
	OAC rule 3745-21-09(C)(1)(a)(v)	15.1 lbs of VOC per gallon of deposited solids on a daily basis.
	40 CFR Part 60, Subpart MM	1.40 kgs of VOC/liter (11.7 lbs of VOC/gal) of applied coating solids on a monthly basis.
35.8 mmBtu/hr natural gas curing oven combustion emissions	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 13 tpy of CO, 16 tpy of nitrogen oxides (NOx), 0.88 tpy of particulate emissions as PM10, 0.0006 lb of sulfur dioxide (SO2)/mmBtu of actual heat input,

	0.10 tpy of SO2, 0.85 tpy of VOC, 5% opacity as a 6-minute average from each oven combustion stack, and see section A.I.2.c.
OAC rules 3745-31-10 thru 20 (PTI 04-01102)	0.100 lb of NOx/mmBtu of actual heat input, 0.0056 lb of PM10/mmBtu of actual heat input, and 0.0054 lb of VOC/mmBtu of actual heat input.
OAC rule 3745-17-07(A)(1)	See section A.I.2.d.
OAC rule 3745-17-10(B)(1)	See section A.I.2.d.
OAC rule 3745-18-06(A)	See section A.I.2.e.
OAC rule 3745-23-06(B)	See section A.I.2.f.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 thru 20.

2.b The requirements established pursuant to this rule are equivalent to the requirements of OAC rule 3745-21-09(C)(1)(a)(v) and 40 CFR Part 60, Subpart MM.

2.c The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06(A), OAC rule 3745-23-06(B), OAC rules 3745-31-10 thru 20.

2.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).

2.e OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no

monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions units.

2. The permittee shall collect and record the following information for each month for the coating line and control equipment:

   a. the name and identification number of each coating, as applied;

   b. the mass of VOC per volume of coating solids, as applied, the volume solids content, as applied, and the applied volume of each coating;

   c. the maximum VOC content (in mass of VOC per volume of applied coating solids) or the daily volume-weighted average VOC content (in mass of VOC per volume of applied coating solids) of all the coatings;

   d. the calculated VOC emission rate, in mass of VOC per volume of applied coating solids. The VOC emission rate shall be calculated using the maximum VOC content or the daily volume-weighted VOC content recorded in accordance with section A.III.2.c. above;

   e. the monthly emissions of VOC and the rolling, 12-month summation of the monthly emissions; and

   f. a log or record of operating time for the capture (collection) system, control device(s), monitoring equipment, and the associated emissions unit.

   Alternate, equivalent record keeping methods may be used upon written approval by the Toledo Division of Environmental Services.

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 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 all records showing that the calculated VOC emission rate exceeds the applicable mass of VOC per volume of coating solids limitation. The notification shall include a copy of such record.

3. The permittee shall submit quarterly deviation (excursion) reports that identify all records showing that the tons of VOC/rolling, 12-month period exceeds the applicable limitation. The notification shall include a copy of such record.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

3.25 tons of VOC per rolling, 12-month period

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the record keeping requirements of section A.III.2. Where applicable, the permittee shall use OAC 3745-21-10(B) and the procedures in 40 CFR Part 60.393 for determining the monthly volume-weighted average mass of VOC emitted per volume of applied solids.

1.b Emission Limitation:

1.40 kgs of VOC/liter (11.7 lbs of VOC/gal) of applied coating solids on a monthly basis

Applicable Compliance Method:

The permittee shall use the procedures in 40 CFR Part 60.393 for determining the monthly volume-weighted average mass of VOC emitted per volume of applied solids.

1.c Emission Limitation:

15.1 lbs of VOC per gallon of deposited solids on a daily basis.

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.2. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services. If, pursuant to Method 24, 40 CFR Part 60, Appendix A, the permittee determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

1.d Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

13 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (35.8 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.f Emission Limitation:

0.100 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.g Emission Limitation:

16 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.100 lb/mmBtu) by the maximum fuel heat input rate (35.8 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.h Emission Limitation:

0.0056 lb of PM10/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0056 lb PM10/mmBtu ((5.7 lb PM/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Methods 201 and 202 of 40 CFR Part 51, Appendix M, and procedures specified in OAC rule 3745-17-03(B)(9). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.i Emission Limitation:

0.88 tpy of PM10

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable PM10 emission limitation (0.0056 lb PM10/mmBtu) by the maximum fuel heat input rate (35.8 mmBtu/hour), and by the

maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.j Emission Limitation:

0.0006 lb of SO2/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0006 lb SO2/mmBtu ((0.6 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98, or OAC rule 3745-18-04(G)(3). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 6 of 40 CFR Part 60 Appendix A, using the methods and procedures specified in OAC rule 3745-18-04. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.k Emission Limitation:

0.10 tpy of SO2

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable SO2 emission limitation (of 0.0006 lb/mmBtu) by the maximum fuel heat input rate (35.8 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.l Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.m Emission Limitation:

0.85 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (35.8 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.n Emission Limitation:

5% opacity as a 6-minute average from each oven combustion stack

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

VI Miscellaneous Requirements

1. Should any coating formulations cause a nuisance odor, or process changes cause an increase in the quantity or intensity of odors emitted from this facility, as determined by the Toledo Division of Environmental Services, the company shall take corrective action to reduce the impact of the odors. The time schedule for the corrective action shall be approved by the Toledo Division of Environmental Services.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Topcoat (K023)
Activity Description: Topcoat line 1 and 2 booths and ovens, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
2 automotive topcoat booths w/ water wash filtration, using waterborne basecoat and solventborne clearcoat with regenerative thermal oxidizer (RTO) on 2 clearcoat drying oven exhausts	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	2.8 tons of particulate emissions (as PM10)/rolling, 12-month period, 768.68 tons of volatile organic compounds (VOC)/rolling, 12-month period, 5% opacity as a 6-minute average from the RTO stack, and see sections A.I.2.a and A.I.2.b.
	OAC rules 3745-31-10 thru 20 (PTI 04-01102)	8.63 lbs of VOC/gallon of applied coating solids on a monthly basis.
	OAC rule 3745-17-07(A)(1)	See section A.I.2.c.
	OAC rule 3745-17-11(A)(2)	0.63 lbs/hr of particulate emissions (as PM10).
	OAC rule 3745-21-09(C)(1)(c)	15.1 lbs of VOC per gallon of deposited solids on a daily basis.
	40 CFR Part 60, Subpart MM	See section A.I.2.c.
	OAC rule 3745-31-05(A)(3)	

2 natural gas infrared flash tunnels and 2 indirect fired, drying ovens at 22.2 mmBtu/hr each; combustion emissions	(PTI 04-01102)	0.083 lb of carbon monoxide (CO)/mmBtu of actual heat input, 17 tpy of CO, 20 tpy of nitrogen oxides (NOx), 1.1 tpy of PM10, 0.0006 lb of sulfur dioxide (SO2)/mmBtu of actual heat input, 0.12 tpy of SO2, 1.1 tpy of VOC, 5% opacity as a 6-minute average from each oven combustion stack, and see section A.I.2.d.
	OAC rules 3745-31-10 thru 20 (PTI 04-01102)	0.100 lb of NOx/mmBtu of actual heat input, 0.0056 lb of PM10/mmBtu of actual heat input, and 0.0054 lb of VOC/mmBtu of actual heat input.
	OAC rule 3745-17-07(A)(1)	See section A.I.2.c.
	OAC rule 3745-17-10(B)(1)	See section A.I.2.c.
	OAC rule 3745-18-06(A)	See section A.I.2.e.
	OAC rule 3745-23-06(B)	See section A.I.2.f.

2. Additional Terms and Conditions

2.a The permittee shall operate and maintain a thermal incinerator, with a 100 percent capture efficiency and a minimum of 95 percent control efficiency, to control VOC emissions from the drying oven. The thermal incinerator shall be operated and maintained in accordance with the manufacturer's recommendations.

2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(A)(2), OAC rule 3745-21-09(C)(1)(c) and OAC rules 3745-31-10 thru 20.

2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.d The requirements of this rule also include compliance with the requirements of OAC rules 3745-18-06(A), 3745-23-06(B), and 3745-31-10 thru 20.

2.e OAC rule 3745-18-06(A) does not establish SO2 emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

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 04-01102.

II Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

2. The permittee shall operate the water wash systems whenever this emissions unit is in operation.

3. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the incinerator is in operation as a VOC control device for emissions fee or compliance purposes, shall not be below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

III Monitoring and/or Recordkeeping

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

2. The permittee shall maintain daily records that document any periods when the water wash system was not in service when the emissions unit was in operation.

3. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the firebox of the thermal incinerator when the incinerator is in operation. Each temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications, with any modifications deemed necessary by the permittee and approved by the Toledo Division of Environmental Services. The device shall have an accuracy of the greater of 0.75 percent of

the temperature being measured expressed in degrees Celsius or 2.5 Celsius degrees. Each temperature measurement device shall be equipped with a recording device so that a permanent record is produced. The temperature monitor and recorder shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations.

4. The permittee shall collect and record for each day a log or record of the operating time for the capture (collection) system, control device(s), monitoring equipment, and the associated emissions unit.

5. The permittee shall collect and record the following information for each month for the coating line and control equipment:

   a. the name and identification number of each coating, as applied;

   b. the mass of VOC per volume of coating solids, as applied, the volume solids content, as applied, and the volume, as applied, of each coating;

   c. the maximum VOC content (in mass of VOC per volume of applied coating solids) or the daily volume-weighted average VOC content (in mass of VOC per volume of applied coating solids) of all the coatings;

   d. the calculated, controlled VOC emission rate, in mass of VOC per volume of applied coating solids. The controlled VOC emission rate shall be calculated using (i) either the maximum VOC content or the daily volume-weighted VOC content recorded in accordance with section A.III.5.c above and (ii) the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance;

   e. the calculated, controlled VOC emissions, in tons of VOC/month and tons of VOC/rolling, 12-month period. The controlled VOC emissions shall be calculated using the controlled VOC emission rate in section A.III.5.d above and the volume solids content per month from section A.III.5.b above and a factor of 2,000 lbs/ton;

   f. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.

   Alternate, equivalent record keeping methods may be used upon written approval by the Toledo Division of Environmental Services.

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 this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The permittee shall notify Toledo Division of Environmental Services in writing of any daily record that the water wash system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.

3. The permittee shall submit quarterly temperature deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance. The permittee shall also report every three-hour period during which the average temperature measured is more than 28 Celsius degrees (50 degrees Fahrenheit) less than the average temperature during the most recent control device performance test.

   If no such periods occur, the owner or operator shall submit a negative report.

4. The permittee shall submit quarterly deviation (excursion) reports that identify all monthly records showing that the calculated, controlled VOC emission rate exceeds the applicable mass of VOC per volume of applied coating solids limitation. The notification shall include a copy of such record. If no such instances have occurred during a particular quarter, a report stating this shall be submitted.

5. The permittee shall submit quarterly deviation (excursion) reports that identify all records showing that the tons of VOC/rolling, 12-month period exceeds the applicable limitation. The notification shall include a copy of such record.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

0.63 lbs/hr of particulate emissions (as PM10)

Applicable Compliance Method:

The use of adequate control equipment, as demonstrated by the log or record of congruent operating times for the emissions unit, capture (collection) system and control device(s) required

by sections A.III.2 and A.III.4 shall be considered adequate demonstration of compliance. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 5 of 40 CFR Part 60, Appendix A. All PE captured in the front half of a Method 5 test will be considered to be equivalent to PM10.

1.b Emission Limitation:

2.8 tons of particulate emissions/rolling, 12-month period

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the hourly allowable particulate emission limitation (0.63 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.c Emission Limitation:

5% opacity as a 6-minute average from the RTO stack

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.d Emission Limitation:

8.63 lbs of VOC/gallon of applied coating solids on a monthly basis.

Applicable Compliance Method:

The permittee shall use the procedures in 40 CFR Part 60.393 for determining the monthly volume-weighted average mass of VOC emitted per volume of applied solids. Where applicable, compliance shall also be demonstrated pursuant to the methods and procedures set forth in the "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations", EPA-450-3-88-018, dated December 1988, and any subsequent revision approved by the USEPA and the State of Ohio Environmental Protection Agency. For compliance purposes, a VOC content of 12.26 pounds per gallon will be considered to be equivalent to 1.47 kilograms per liter.

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.1. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule(s) 3745-21-09(C)(2) and 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.e Emission Limitation:

15.1 lbs of VOC per gallon of deposited solids on a daily basis.

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.2. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule(s) 3745-21-09(C)(2) and 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services. If, pursuant to Method 24, 40 CFR Part 60, Appendix A, the permittee determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A. The permittee may elect to comply through monthly record keeping in accordance with OAC rule 3745-21-09(B)(3)(f) of the exclusive usage of compliance coatings.

1.f Emission Limitation:

768.68 tons of VOC/per rolling, 12-month period

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the record keeping requirements of section A.III.5.

1.g Emission Limitation:

100 percent capture efficiency and a minimum of 95 percent control efficiency from the RTO

Applicable Compliance Method:

If required, the permittee shall perform additional emission tests, conducted in accordance with USEPA Method 25 of 40 CFR Part 60, Appendix A, USEPA Methods 204 through 204F of 40 CFR Part 51, Appendix M, and the methods and procedures of OAC rule 3745-21-10(C).

1.h Emission Limitation:

0.083 lb of CO/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.083 lb CO/mmBtu ((84 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 10 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.i Emission Limitation:

17 tpy of CO

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable CO emission limitation (0.083 lb/mmBtu) by the maximum fuel heat input rate (44.4 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.j Emission Limitation:

0.100 lb of NOx/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.099 lb NOx/mmBtu ((100 lb/mmscf)/1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-1, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 7 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.k Emission Limitation:

20 tpy of NOx

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable NOx emission limitation (0.100 lb/mmBtu) by the maximum fuel heat input rate (44.4 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.l Emission Limitation:

0.0056 lb of PM10/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0056 lb PM10/mmBtu ((5.7 lb PM/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. AP-42 states that all particulate from this process is presumed to be less than 1.0 micron in diameter. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Methods 201 and 202 of 40 CFR Part 51, Appendix M, and procedures specified in OAC rule 3745-17-03(B)(9). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.m Emission Limitation:

1.1 tpy of PM10

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable PM10 emission limitation (0.0056 lb PM10/mmBtu) by the maximum fuel heat input rate (44.4 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.n Emission Limitation:

0.0006 lb of SO2/mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0006 lb SO2/mmBtu ((0.6 lb/mmscf)/(1020 scf/mmBtu)) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98, or OAC rule

3745-18-04(G)(3). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 6 of 40 CFR Part 60 Appendix A, using the methods and procedures specified in OAC rule 3745-18-04. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.o Emission Limitation:

0.12 tpy of SO2

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable SO2 emission limitation (of 0.0006 lb/mmBtu) by the maximum fuel heat input rate (44.4 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.p Emission Limitation:

0.0054 lb of VOC/mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0054 lb VOC/mmBtu ((5.5 lb/mmscf)/(1020 scf/mmBtu) specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 1.4-2, dated 7/98. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.q Emission Limitation:

1.1 tpy of VOC

Applicable Compliance Method:

This emission limitation was developed by multiplying the allowable VOC emission limitation (0.0054 lb/mmBtu) by the maximum fuel heat input rate (44.4 mmBtu/hour), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.r Emission Limitation:

5% opacity as a 6-minute average from each oven combustion stack

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. Emission testing shall be conducted approximately 2.5 years after permit issuance and within 6 months prior to permit expiration to demonstrate compliance with the capture and control efficiency limitations for VOC for the booth/oven:

i. the capture efficiency shall be determined in accordance with the test methods and procedures specified in 40 CFR Part 60.393; and

ii. the control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in Method 25 of 40 CFR Part 60, Appendix A. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

b. Initial emission testing, required by PTI 04-01102, shall be completed within 3 months after issuance of this permit to demonstrate compliance with the allowable mass emission rate for particulates from the booth. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

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

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit

operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Toledo Division of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services 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 Toledo Division of Environmental Services within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Toledo Division of Environmental Services.

VI Miscellaneous Requirements

1. Should any coating formulations cause a nuisance odor, or process changes cause an increase in the quantity or intensity of odors emitted from this facility, as determined by the Toledo Division of Environmental Services, the company shall take corrective action to reduce the impact of the odors. The time schedule for the corrective action shall be approved by the Toledo Division of Environmental Services.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Low bake repair with Spovens (K024)
Activity Description: Off line low bake repair with Spoven 1 and 2, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Automotive off-line repair (low temperature bake) Spoven (combination spray booth and electric oven) w/ dry filtration	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	28 tons of volatile organic compounds (VOC)/rolling, 12-month period, 2.4 tpy of particulate emissions (as PM10), 5% opacity as a 6-minute average, and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20 (PTI 04-01102)	See section A.I.2.b.
	OAC rule 3745-17-07(A)(1)	See section A.I.2.c.
	OAC rule 3745-17-11(A)(2)	0.551 lb/hr of particulate emissions (as PM10).
	OAC rule 3745-21-09(C)(1)(d)	4.8 lbs of VOC/gallon of coating, excluding water and exempt solvents.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(A)(2), 3745-21-09(C)(1)(d) and 3745-31-10 thru 20.

2.b The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-11(A)(2) and 3745-21-09(C)(1)(d).

2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

II Operational Restrictions

1. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

2. The permittee shall comply with the emission limitation for VOC by the exclusive use of compliance coatings, i.e., each coating utilized shall comply with the applicable emission limitation as applied.

III Monitoring and/or Recordkeeping

1. The permittee shall maintain daily records that document any periods when the dry filtration system was not in service when the emissions unit was in operation.

2. The permittee shall collect and record the following information each month for the line:

   a. the name and identification number of each coating, as applied; and

   b. the VOC content of each coating (excluding water and exempt solvents), as applied.

3. The permittee shall collect and record the following information each month for the purpose of determining average daily, monthly and annual VOC emissions :

   a. the name and identification number of each coating, as applied;

   b. the VOC content of each coating (excluding water and exempt solvents), as applied;

   c. the number of gallons (excluding water and exempt solvents) of each coating employed;

   d. the total number of gallons (excluding water and exempt solvents) of all coatings employed, calculated as a summation of the quantities recorded in (c) above;

   e. the name and identification of each cleanup material employed;

f. the VOC content of each cleanup material, in pounds per gallon;

g. the number of gallons of each cleanup material employed;

h. the total VOC emissions from all coatings and cleanup materials employed, in tons per month;

i. the rolling 12-month summation of emissions from all coatings and cleanup materials employed, in tons per year;

j. the number of days the emissions units was in operation; and

k. the daily average VOC emissions rate, (h)/(j), in pounds per day.

IV Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record when the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.

2. The permittee shall notify the Toledo Division of Environmental Services in writing of any record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the exceedance occurs.

3. The permittee shall submit quarterly deviation (excursion) reports that identify all records showing that the tons of VOC/rolling, 12-month period exceeds the applicable limitation. The notification shall include a copy of such record.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

0.551 lb/hr of particulate emissions (as PM10)

Applicable Compliance Method:

To determine the actual worst case particulate emission rate, the following equation shall be used:

E = (M) x (1-TE) x (1-CE)

where:

E = particulate emission rate (lbs/hr)

M = maximum coating solids usage rate (lbs/hr)

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used

CE = control efficiency of the control equipment. If more than one piece of control equipment is used in series, the equation should be multiplied by additional (1-CE) terms for each additional piece of equipment.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10). All particulate emissions captured in the front half of a Method 5 test will be considered to be equivalent to PM10.

1.b Emission Limitation:

2.4 tpy of particulate emissions

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the hourly allowable particulate emission limitation (0.551 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

1.c Emission Limitation:

5% opacity as a 6-minute average from the Spoven

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.d Emission Limitation:

4.8 lbs VOC/gal of coating, excluding water and exempt solvents

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.2. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule(s) 3745-21-09(C)(2) and 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services. If, pursuant to Method 24, 40 CFR Part 60, Appendix A, the permittee determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

1.e Emission Limitation:

28 tons of VOC/rolling, 12-month period

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the record keeping requirements of section A.III.3.

VI Miscellaneous Requirements

1. Should any coating formulations cause a nuisance odor, or process changes cause an increase in the quantity or intensity of odors emitted from this facility, as determined by the Toledo Division of Environmental Services, the company shall take corrective action to reduce the impact of the odors. The time schedule for the corrective action shall be approved by the Toledo Division of Environmental Services.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Blackout (K027)
Activity Description: Blackout booth, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Automotive blackout w/ dry filtration; air dried	OAC rule 3745-31-05(A)(3), established by PTI 04-01102	54 tons of volatile organic compounds (VOC)/rolling, 12-month period, 2.4 tpy of particulate emissions (as PM10), 5% opacity as a 6-minute average, and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20	2.0 lbs of VOC/gallon of coating, excluding water and exempt solvents, and see section A.I.2.b.
	OAC rule 3745-17-07(A)(1)	See section A.I.2.c.
	OAC rule 3745-17-11(A)(2)	0.551 lb/hr of particulate emissions (as PM10).
	OAC rule 3745-21-09(U)(1)(i) and (2)(f)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(A)(2) and 3745-31-10 thru 20.

2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(A)(2).

2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

II Operational Restrictions

1. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

2. The permittee shall comply with the emission limitation for VOC by the exclusive use of compliance coatings, i.e., each coating utilized shall comply with the applicable emission limitation as applied.

III Monitoring and/or Recordkeeping

1. The permittee shall maintain daily records that document any periods when the dry filtration system was not in service when the emissions unit was in operation.

2. The permittee shall collect and record the following information each month for the line:

   a. the name and identification number of each coating, as applied; and

   b. the VOC content of each coating (excluding water and exempt solvents), as applied.

3. The permittee shall collect and record the following information each month for the purpose of determining average daily, monthly and annual VOC emissions:

   a. the name and identification number of each coating, as applied;

   b. the VOC content of each coating (excluding water and exempt solvents), as applied;

   c. the number of gallons (excluding water and exempt solvents) of each coating employed;

   d. the total number of gallons (excluding water and exempt solvents) of all coatings employed, calculated as a summation of the quantities recorded in (c) above;

   e. the name and identification of each cleanup material employed;

f. the VOC content of each cleanup material, in pounds per gallon;

g. the number of gallons of each cleanup material employed;

h. the total VOC emissions from all coatings and cleanup materials employed, in tons per month;

i. the rolling 12-month summation of emissions from all coatings and cleanup materials employed, in tons per year;

j. the number of days the emissions units was in operation; and

k. the daily average VOC emissions rate, (h)/(j), in pounds per day.

IV Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record when the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.

2. The permittee shall notify the Toledo Division of Environmental Services in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days following the end of the calendar month.

3. The permittee shall submit quarterly deviation (excursion) reports that identify all records showing that the tons of VOC/rolling, 12-month period exceeds the applicable limitation. The notification shall include a copy of such record.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

0.551 lb/hr of particulate emissions (as PM10)

Applicable Compliance Method:

To determine the actual worst case particulate emission rate, the following equation shall be used:

E = (M) x (1-TE) x (1-CE)

where:

E = particulate emission rate (lbs/hr)

M = maximum coating solids usage rate (lbs/hr)

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used

CE = control efficiency of the control equipment. If more than one piece of control equipment is used in series, the equation should be multiplied by additional (1-CE) terms for each additional piece of equipment.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10). All particulate emissions captured in the front half of a Method 5 test will be considered to be equivalent to PM10.

1.b Emission Limitation:

2.4 tpy of particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 5 of 40 CFR Part 60, Appendix A.

1.c Emission Limitation:

5% opacity as a 6-minute average

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.d Emission Limitation:

2.0 lbs of VOC/gallon of coating, excluding water and exempt solvents

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.2. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services. If, pursuant to Method 24, 40 CFR Part 60, Appendix A, the permittee determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

1.e Emission Limitation:

54 tons of VOC/rolling, 12-month period

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the record keeping requirements of section A.III.3.

VI Miscellaneous Requirements

1. Should any coating formulations cause a nuisance odor, or process changes cause an increase in the quantity or intensity of odors emitted from this facility, as determined by the Toledo Division of Environmental Services, the company shall take corrective action to reduce the impact of the odors. The time schedule for the corrective action shall be approved by the Toledo Division of Environmental Services.

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Interior touch-up (K029)
Activity Description: Interior paint repair booth, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Automotive off-line touch-up repair w/ dry filtration; air dry	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	5.6 tons of volatile organic compounds (VOC)/rolling, 12-month period, 5% opacity as a 3-minute average, and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20 (PTI 04-01102)	See section A.I.2.b.
	OAC rule 3745-17-07(B)	See section A.I.2.c.
	OAC rule 3745-17-08(B), (B)(3)	See section A.I.2.d.
	OAC rule 3745-21-09(C)(1)(d)	4.8 lbs of VOC/gallon of coating, excluding water and exempt solvents

2. **Additional Terms and Conditions**

2.a The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08(B), (B)(3), 3745-21-09(C)(1)(d), and 3745-31-10 thru 20.

2.b The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-08(B), (B)(3) and 3745-21-09(C)(1)(d).

2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.d The permittee shall employ best available control measures for the purpose of ensuring compliance with this applicable requirement including the installation and use hoods, fans, and/or other equipment to adequately enclose, contain, capture, vent and control the fugitive dust.

II Operational Restrictions

1. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

2. The permittee shall comply with the emission limitation for VOC by the exclusive use of compliance coatings, i.e., each coating utilized shall comply with the applicable emission limitation as applied.

III Monitoring and/or Recordkeeping

1. The permittee shall maintain daily records that document any periods when the dry filtration system was not in service when the emissions unit was in operation.

2. The permittee shall collect and record the following information each month for the line:

   a. the name and identification number of each coating, as applied; and

   b. the VOC content of each coating (excluding water and exempt solvents), as applied.

3. The permittee shall collect and record the following information each month for the purpose of determining average daily, monthly and annual VOC emissions:

   a. the name and identification number of each coating, as applied;

   b. the VOC content of each coating (excluding water and exempt solvents), as applied;

   c. the number of gallons (excluding water and exempt solvents) of each coating employed;

   d. the total number of gallons (excluding water and exempt solvents) of all coatings employed, calculated as a summation of the quantities recorded in (c) above;

   e. the name and identification of each cleanup material employed;

f. the VOC content of each cleanup material, in pounds per gallon;

g. the number of gallons of each cleanup material employed;

h. the total VOC emissions from all coatings and cleanup materials employed, in tons per month;

i. the rolling 12-month summation of emissions from all coatings and cleanup materials employed, in tons per year;

j. the number of days the emissions units was in operation; and

k. the daily average VOC emissions rate, (h)/(j), in pounds per day.

IV Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record when the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.

2. The permittee shall notify the Toledo Division of Environmental Services in writing of any record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the exceedance occurs.

3. The permittee shall submit quarterly deviation (excursion) reports that identify all records showing that the tons of VOC/rolling, 12-month period exceeds the applicable limitation. The notification shall include a copy of such record.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

5% opacity as a 3-minute average

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 using the methods and procedures

specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

4.8 lbs of VOC/gallon of coating, excluding water and exempt solvents

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.2. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services. If, pursuant to Method 24, 40 CFR Part 60, Appendix A, the permittee determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

1.c Emission Limitation:

5.6 tons of VOC/rolling, 12-month period

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated by the record keeping requirements of section A.III.3.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Window Installation (P002)
Activity Description: Window cleaner and primer applications, Stickney

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Window installation with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-830)	12.5 lbs/hr of volatile organic compounds (VOC), 200.0 lbs/day of VOC, and see sections A.I.2.a and A.I.2.b.
	OAC rule 3745-31-05(D) (PTI 04-830)	30.0 tons of VOC/rolling, 12-month period, and see section A.I.2.c.
	OAC rule 3745-21-07(G)(2)	40 lbs/day and 8 lbs/hour of organic material from cleaners and primers applied to non-metallic surfaces.
	OAC rule 3745-21-09(U)(1)(g)	4.9 lbs of VOC/gallon, excluding water and exempt solvents, when coating metallic surfaces.

2. Additional Terms and Conditions

2.a The permittee shall not exceed any of the following:

i. for the side window primer - 4.9 lbs of VOC/gallon, excluding water and exempt solvents, and 400 gallons/month;

ii. windshield cleaner - 6.2 lbs of VOC/gallon, excluding water and exempt solvents, and 129.4 gallons/month;

iii. side glass primer - 6.9 lbs of VOC/gallon, excluding water and exempt solvents, and 40.3 gallons/month; and

iv. blackout primer - 4.9 lbs of VOC/gallon, excluding water and exempt solvents, and 400 gallons/month.

2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G)(2), OAC rule 3745-21-09(U)(1)(g), and OAC rule 3745-31-05(D).

2.c This annual emission limitation is based upon the emission unit's potential to emit (PTE) at the maximum usage rates of section A.I.2.a. Therefore, provided compliance with the limitations of section A.I.2.a is demonstrated, it is not necessary to develop additional monitoring, record keeping, and reporting requirements to ensure compliance with the annual emission limitation.

II Operational Restrictions

1. The permittee shall comply with the emission limitation for VOC by the exclusive use of compliance coatings, i.e., each coating utilized shall comply with the applicable emission limitation as applied.

III Monitoring and/or Recordkeeping

1. The permittee shall collect and record the following information for each day for each side window primer, windshield cleaner, side glass primer, and blackout primer employed:

   a. the company identification;

   b. the total number of gallons;

   c. the VOC content, in lbs of VOC/gallon, excluding water and exempt solvents;

   d. the total VOC emission rate from all primers and cleaners employed, in lbs/day;

   e. the total number of hours that this emissions unit was in operation, in hours/day; and

   f. the hourly VOC emission rate, i.e., (d)/(e), in lbs/hour (average).

Note: For any month in which no coatings subject to OAC rule 3745-21-07 are utilized in this emissions unit, the permittee may elect to keep the records above on a monthly basis.

2. The permittee shall collect and record each month, the total number of gallons for each classification of solvent or cleaner employed (i.e., side window primer, windshield cleaner, side glass primer, and blackout primer).

3. The permittee shall identify each type of substrate coated (metallic or non-metallic) and the relative surface area of, or the relative rate of cleaner or primer application to, each substrate coated for each cleaner or primer on each day the emissions unit is in operation.

4. The permittee shall collect and record the following information each day when coating metal surfaces:

   a. the name and identification number of each cleaner or primer, as applied;

   b. the VOC content (excluding water and exempt solvents) and the number of gallons (excluding water and exempt solvents) of each cleaner or primer, as applied; and

   c. the rolling, volume-weighted average VOC content of all cleaners or primers, as applied, calculated in accordance with the equation specified in paragraph (B)(9) of OAC rule 3745-21-10 for CVOC,2.

   [Note: When coating substrates with both metallic and non-metallic surfaces, the number of gallons applied may be determined by multiplying the actual number of gallons applied by the relative rate of cleaner or primer application to metallic substrates determined in section A.III.3. of this permit.]

5. The permittee shall collect and record the following information for each day when coating non-metallic surfaces:

   a. the company identification for each cleaner, primer, and photochemically reactive cleanup material employed;

   b. the total number of gallons of each cleaner, primer, and photochemically reactive cleanup material employed;

   c. the organic compound content of each cleaner, primer, and photochemically reactive cleanup material, in lbs/gal;

   d. the total organic compound emission rate for all cleaner, primer, and photochemically reactive cleanup materials, in lbs/day;

e. the total number of hours that this emissions unit was in operation, in hours/day; and

f. the hourly organic compound emission rate for the cleaners, primers, and photochemically reactive cleanup materials, i.e., (d)/(e), in lbs/hr (average).

[Note: When coating substrates with both metallic and non-metallic surfaces, the number of gallons of each cleaner or primer employed may be determined by multiplying the actual number of gallons applied by the relative rate of cleaner or primer application to non-metallic substrates determined in section A.III.3 of this permit. The sealer or adhesive information must be for the sealers or adhesives as employed, including any thinning solvents added at the emissions unit. The monitoring and record keeping requirements of this section do not apply if the applied coating conforms to the exemptions of OAC rule 3745-21-07(G)(9). Also, the definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

IV Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any monthly record showing the use of noncomplying side window primers, windshield cleaners, side glass primers, or blackout primers. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services 30 days following the end of the calendar month.

2. The permittee shall submit quarterly deviation (excursion) reports that include the following information:

   a. any daily record showing that the coating line exceeds the applicable hourly VOC emission limitation;

   b. any daily record showing that the coating line exceeds the applicable daily VOC emission limitation;

   c. any monthly record showing that the coating line exceeds the applicable monthly usage limitation; and

   d. any monthly record showing that the coating line exceeds the applicable rolling, 12-month emission limitation.

3. The permittee shall submit quarterly deviation (excursion) reports that include the following information, when coating non-metallic surfaces:

   a. an identification of each day during which the hourly organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 8 lbs/hour, and the hourly organic compound emissions for each such day; and

b. an identification of each day during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 40 lbs/day, and the actual organic compound emissions for each such day.

4. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record showing that the daily volume-weighted average VOC content exceeds the applicable limitation when coating metal parts. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 45 days after the exceedance occurs.

5. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitations:

i. for the side window primer - 4.9 lbs of VOC/gal excluding water and exempt solvents and 400 gal/month;

ii. windshield cleaner - 6.2 lbs of VOC/gal excluding water and exempt solvents and 129.4 gal/month;

iii. side glass primer - 6.9 lbs of VOC/gal excluding water and exempt solvents and 40.3 gal/month; and

iv. blackout primer - 4.9 lbs of VOC/gal excluding water and exempt solvents and 400 gal/month.

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of sections A.III.1 and A.III.2. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A.

1.b Emission Limitation:

4.9 lbs of VOC/gallon of any coating material, excluding water and exempt solvents, when coating metal parts

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.4. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services. If, pursuant to Method 24, 40 CFR Part 60, Appendix A, the permittee determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A. The permittee may elect to comply through monthly record keeping in accordance with OAC rule 3745-21-09(B)(3)(f) of the exclusive usage of compliance coatings.

1.c Emission Limitations:

40 lbs/day and 8 lbs/hr of organic material

Applicable Compliance Method:

Compliance with these organic material emission limitations shall be based upon the daily record keeping requirements specified in section A.III.5.

1.d Emission Limitation:

12.5 lbs/hr and 200 lbs/day of VOC from coatings applied to all surfaces

Applicable Compliance Method:

Compliance with these organic material emission limitations shall be based upon the daily record keeping requirements specified in section A.III.1.

1.e Emission Limitation:

30.0 tons of VOC/rolling, 12-month period

Applicable Compliance Method:

This limitation was established by multiplying the maximum VOC contents of the sealers and adhesives by the maximum usage rates specified in section A.I.2.a. Therefore, provided compliance is shown with the content and usage limitations, compliance shall also be shown with these emission limitations.

2. USEPA Methods 24 and 24A shall be used to determine the VOC contents for the cleaners and primers utilized in this emissions unit. If, pursuant to Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular cleaner or primer, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that cleaner or primer to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Sealer & Adhesive Application (P003)
Activity Description: Sealer and adhesive applications, Stickney

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Sealer and adhesive application with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-830)	26.7 lbs/day and 667 lbs/month of volatile organic compounds (VOC) from sealers and adhesives applied to all surfaces, and see sections A.I.2.a, A.I.2.b, and A.I.2.c.
	OAC rule 3745-31-05(D) (PTI 04-830)	4.0 tons of VOC/rolling, 12-month period, and see section A.I.2.c.
	OAC rule 3745-21-07(G)(2)	40 lbs/day and 8 lbs/hr of organic material from sealers and adhesives applied to non-metallic surfaces.
	OAC rule 3745-21-09(U)(1)(c)	3.5 lbs of VOC/gallon, excluding water and exempt solvents, when coating metallic surfaces.

2. **Additional Terms and Conditions**

2.a The permittee shall not exceed any of the following:

i. silencer adhesive or equivalent - 0.26 lb of VOC/gallon, excluding water and exempt solvents, 0.15 lb of VOC/gallon, including water and exempt solvents, and 247 gallons/month as applied, including water and exempt solvents;

ii. windshield sealer or equivalent - 1.5 lbs of VOC/gallon, excluding water and exempt solvents and 140 gallons/month; and

iii. door sealer or equivalent - 2.8 lbs of VOC/gallon, minus water and exempt solvents and 150 gallons/month.

2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-07(G)(2), 3745-21-09(U)(1)(c), and 3745-31-05(D).

2.c The monthly and annual emission limitations outlined in section A.I.1. are based upon the emissions unit's potential to emit (PTE) at the maximum usage rates of section A.I.2.b. Therefore, it is not necessary to develop additional monitoring, record keeping and reporting requirements to ensure compliance with these limits.

II Operational Restrictions

1. The permittee shall comply with the emission limitation for VOC in coatings applied to metallic surfaces by the exclusive use of compliance coatings, i.e., each coating utilized shall comply with the applicable emission limitation as applied.

2. Door sealer (Part No. 02498190) shall be applied in such a way that no asbestos is released to the ambient air. No sanding, scraping, grinding, etc. of applied door sealer containing asbestos shall be performed unless precautions are taken to prevent the material from becoming airborne. Disposal of any waste door sealer containing asbestos shall be by all prescribed solid and/or hazardous waste rules or regulations.

III Monitoring and/or Recordkeeping

1. The permittee shall collect and record the following information for each day for each silencer adhesive or equivalent employed, each windshield sealer or equivalent employed, and each door sealer or equivalent employed:

   a. the company identification for each;

   b. the total number of gallons employed;

   c. the VOC content, in pounds of VOC per gallon, excluding water;

   d. the VOC content, in pounds of VOC per gallon, including water; and

e. the total VOC emission rate of all silencer adhesives, windshield sealers, and door sealers employed, in pounds per day.

Note: The coating information must be for the sealers and adhesives as employed, including any thinning solvents added at the emissions unit. Formulation data may be used. Also, for any month in which no sealers and adhesives subject to OAC rule 3745-21-07 are utilized in this emissions unit, the permittee may elect to keep the records above on a monthly basis.

2. The permittee shall collect and record each month, the total number of gallons for each classification of sealer and adhesive employed, as follows:

   a. silencer adhesives or equivalent, as applied;

   b. windshield sealers or equivalent; and

   c. door sealers or equivalent.

3. The permittee shall identify each type of substrate coated (metallic or non-metallic) and the relative surface area of, or the relative rate of sealer or adhesive application to, each substrate coated for each sealer and adhesive on each day the emissions unit is in operation.

4. When coating metal surfaces, the permittee shall collect and record the following information each month for the line:

   a. the name and identification number of each coating, as applied; and

   b. the VOC content of each coating (excluding water and exempt solvents), as applied.

   [Note: When coating substrates with both metallic and non-metallic surfaces, the number of gallons applied may be determined by multiplying the actual number of gallons applied by the relative rate of sealer and adhesive application to metallic substrates determined in section A.III.2 of this permit.]

5. When coating non-metallic surfaces, the permittee shall collect and record the following information for each day:

   a. the company identification for each sealer, adhesive, and photochemically reactive cleanup material employed;

   b. the total number of gallons of each sealer, adhesive, and photochemically reactive cleanup material employed;

   c. the organic compound content of each sealer, adhesive, and photochemically reactive cleanup material, in pounds per gallon;

d. the total organic compound emission rate for all sealers, adhesives, and photochemically reactive cleanup materials, in pounds per day;

e. the total number of hours that this emissions unit was in operation, in hours per day; and

f. the hourly organic compound emission rate for the sealers, adhesives, and photochemically reactive cleanup materials, i.e., (d)/(e), in pounds per hour (average).

[Note: When coating substrates with both metallic and non-metallic surfaces, the number of gallons of each sealer, adhesive, and photochemically reactive cleanup material employed may be determined by multiplying the actual number of gallons applied by the relative rate of sealer or adhesive application to non-metallic substrates determined in section A.III.2 of this permit. The sealer or adhesive information must be for the sealers or adhesives as employed, including any thinning solvents added at the emissions unit. The monitoring and record keeping requirements of this section do not apply if the applied coating conforms to the exemptions of OAC rule 3745-21-07(G)(9). Also, the definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

IV Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any monthly record showing the use of noncomplying silencer adhesives, windshield sealers, or door sealers. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services 30 days following the end of the calendar month.

2. The permittee shall submit quarterly deviation (excursion) reports that include the following information:

   a. any daily record showing that the coating line exceeds the applicable daily VOC emission limitation; and

   b. any monthly record showing that the coating line exceeds the applicable monthly usage limitation.

3. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record showing that the daily volume-weighted average VOC content exceeds the applicable limitation when coating metal parts. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 45 days after the exceedance occurs.

4. The permittee shall submit quarterly deviation (excursion) reports that include the following information, when coating non-metallic surfaces:

a. an identification of each day during which the hourly organic compound emissions from the sealers, adhesives, and photochemically reactive cleanup materials exceeded 8 lbs/hr, and the hourly organic compound emissions for each such day; and

b. an identification of each day during which the organic compound emissions from the sealers, adhesives, and photochemically reactive cleanup materials exceeded 40 lbs/day, and the actual organic compound emissions for each such day.

5. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitations:

i. for the silencer adhesive or equivalent - 0.26 lb of VOC/gallon, excluding water and exempt solvents, 0.15 lb of VOC/gallon, including water and exempt solvents, and 247 gallons/month as applied, including water and exempt solvents;

ii. windshield sealer or equivalent - 1.5 lbs of VOC/gallon, excluding water and exempt solvents and 140 gallons/month; and

iii. door sealer or equivalent - 2.8 lbs of VOC/gallon, minus water and exempt solvents and 150 gallons/month.

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of sections A.III.1 and A.III.2. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A.

1.b Emission Limitation:

3.5 lbs of VOC/gallon of any sealer or adhesive, excluding water and exempt solvents, when coating metal parts

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated based upon record keeping requirements of section A.III.4 and the methods and procedures of OAC rule 3745-21-10(B).

1.c Emission Limitations:

40 lbs/day and 8 lbs/hr of organic material from sealers and adhesives applied to non-metallic surfaces

Applicable Compliance Method:

Compliance with these organic material emission limitations shall be based upon the daily record keeping of section A.III.5.

1.d Emission Limitation:

26.7 lbs/day of VOC from sealers and adhesives applied to all surfaces

Applicable Compliance Method:

Compliance with this organic material emission limitation shall be based upon daily record keeping of section A.III.1.

1.e Emission Limitations:

667 lbs/month and 4.0 tons per rolling, 12-month period of VOC

Applicable Compliance Method:

These emission limitations were established by multiplying the maximum VOC contents of the sealers and adhesives by the maximum usage rates specified in section A.I.2.a. Therefore, provided compliance is shown with the content and usage limitations, compliance shall also be shown with these emission limitations.

2. USEPA Methods 24 and 24A shall be used to determine the VOC contents for the sealers and adhesives utilized in this emissions unit. If, pursuant to Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular sealer or adhesive, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that sealer or adhesive to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Misc. Solvents and Cleaners Application (P004)
Activity Description: Plant wide miscellaneous solvent and cleaner applications, Stickney

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Miscellaneous solvents and cleaners with no controls	OAC rule 3745-31-05(A)(3) (PTI 04-830)	200.0 lbs/day of volatile organic compounds (VOC), 2.5 tons/month of VOC, and see sections A.I.2.a, A.I.2.b, and A.I.2.c.
	OAC rule 3745-31-05(D) (PTI 04-830)	30.0 tons of VOC per rolling, 12-month period, and see section A.I.2.c.
	OAC rule 3745-21-07(G)(4)	See section A.I.2.d.

2. Additional Terms and Conditions

2.a The permittee shall not exceed any of the following:

i. for the body wipe solvent or equivalent - 6.8 lbs of VOC/gallon, excluding water and exempt solvents, and 368 gallons/month;

ii. booth cleaner or equivalent - 7.4 lbs of VOC/gallon, excluding water and exempt solvents, and 176 gallons/month; and

iii. machine cleaner or equivalent - 6.8 lbs of VOC/gallon, excluding water and exempt solvents, and 176 gallons/month.

2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-07(G)(4) and 3745-31-05(D).

2.c The monthly and annual emission limitations are based upon the emissions unit's potential to emit (PTE) at the maximum usage rates of section A.I.2.a. Therefore, provided compliance with the limitations of section A.I.2.a is demonstrated, it is not necessary to develop additional monitoring, record keeping and reporting requirements to ensure compliance with the monthly and annual emission limitations.

2.d The use of photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit is prohibited. Prior to employing any photochemically reactive materials, the permittee shall provide written notification to, and obtain approval from, Toledo Division of Environmental Services. Such notification shall include information sufficient to determine that the emissions associated with the proposed change in materials will comply with the emission limits and/or control requirements as defined in OAC 3745-21-07(G)(2). This notification, at a minimum, shall include the company identification of the new material to be employed, the solvent composition of the material, and the maximum amount to be used, in pounds per hour.

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

1. The permittee shall collect and record the following information for each day for each body wipe or equivalent employed, booth cleaner or equivalent employed, and machine cleaner or equivalent employed:

   a. the company identification;

   b. the total number of gallons;

   c. the VOC content, in lbs of VOC/gallon, excluding water; and

   d. the total VOC emission rate from all solvents and cleaners employed, in lbs/day.

2. The permittee shall collect and record each month, the total number of gallons for each classification of solvent or cleaner employed, as follows:

a. body wipes or equivalent;

b. booth cleaner or equivalent; and

c. machine cleaner or equivalent.

3. Formulation data may be used. Alternate, equivalent record keeping methods may be used upon written approval by the Toledo Division of Environmental Services.

IV Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record showing the use of noncomplying body wipes, booth cleaners or machine cleaners. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services 30 days following the end of the calendar month.

2. The permittee shall submit quarterly deviation (excursion) reports that include the following information:

   a. any monthly record showing that the coating line exceeds the applicable daily VOC emission limitation; and

   b. any monthly record showing that the coating line exceeds the applicable monthly usage limitation.

3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.

V Testing Requirements

1. Compliance with the emission limitation(s) in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitations:

   i. for the body wipe solvent or equivalent - 6.8 lbs of VOC/gallon, excluding water and exempt solvents, and 368 gallons/month;

   ii. booth cleaner or equivalent - 7.4 lbs of VOC/gallon, excluding water and exempt solvents, and 176 gallons/month; and

   iii. machine cleaner or equivalent - 6.8 lbs of VOC/gallon, excluding water and exempt solvents, and 176 gallons/month.

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of sections A.III.1 and A.III.2. If required, compliance shall be demonstrated by an evaluation performed in accordance with OAC rule 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A.

1.b Emission Limitation:

200 lbs/day of VOC from solvents and cleaners applied to all surfaces

Applicable Compliance Method:

Compliance with these organic material emission limitations shall be based upon daily record keeping of section A.III.2.

1.c Emission Limitations:

2.5 tons/month and 30.0 tons per rolling, 12-month period of VOC

Applicable Compliance Method:

These limitations were established by multiplying the maximum VOC contents of the solvents and cleaners by the maximum usage rates specified in section A.I.2.a. Therefore, provided compliance is shown with the content and usage limitations, compliance shall also be shown with these emission limitations.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Non-Production maint.material spraybth cleaning & purge (P007)
Activity Description: Non-production maintenance materials, spray booth cleaning and purge applications, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Non-production maintenance materials, spray booth cleaning and purge solvents	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	See section A.I.2.a.
	OAC rules 3745-31-10 thru 20	514.18 tons of volatile organic compounds (VOC)/rolling, 12-month period

2. Additional Terms and Conditions

2.a The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-31-10 thru 20.

II Operational Restrictions

1. The permittee shall employ only appropriate solvent dispensers, disposal containers, and booth cleaning techniques appropriate to minimize evaporation in this emissions unit.

III Monitoring and/or Recordkeeping

1. The permittee shall collect and record the following information each month for the non-production maintenance material operations:

a. the company identification for each non-production maintenance material employed;

b. the number of gallons of each non-production maintenance material employed;

c. the organic compound content of each non-production maintenance material, in lbs/gal, excluding water and exempt solvents; and

d. the monthly emissions of VOC and the rolling, 12-month summation of the monthly emissions.

2. Formulation data may be used. Alternate, equivalent record keeping methods may be used upon written approval by the Toledo Division of Environmental Services.

IV Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify records showing that the material used in this emissions unit exceeds the applicable limitation. The notification shall include a copy of such record.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

514.18 tons of VOC, as a rolling, 12-month total

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1 and OAC rule 3745-21-10(B).

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Sealers and Adhesives (P008)
Activity Description: Sealer and Adhesive Applications, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Automotive sealers and adhesives with no control	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	140 tons of volatile organic compounds (VOC)/rolling, 12-month period, and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20 (PTI 04-01102)	0.5 lb of VOC/gallon, excluding water and exempt solvents, as a monthly average.
	OAC rule 3745-21-07(G)(9)(f)	See section A.I.2.b.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-07(G)(9)(f) and 3745-31-10 thru 20.

2.b The permittee shall not employ any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit.

II Operational Restrictions

1. The permittee shall employ only dispensers and disposal containers appropriate to minimize exposure times in this emissions unit.

III Monitoring and/or Recordkeeping

1. The permittee shall collect and record the following information each month for the sealer and adhesive operations:

   a. the company identification for each sealer and adhesive material employed;

   b. a determination of whether each sealer and adhesive material is photochemically reactive or non-photochemically reactive as defined in OAC rule 3745-21-09(C)(5);

   c. the unit quantity of each sealer and adhesive material employed;

   d. the organic compound content of each sealer and adhesive material, in lbs/unit quantity, excluding water and exempt solvents;

   e. the monthly average organic compound content for all sealer and adhesive material, in lbs of VOC/gallon, excluding water and exempt solvents; and

   f. the monthly emissions of VOC and the rolling, 12-month summation of the monthly emissions.

IV Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any photochemically reactive sealer or adhesive material that was used in this emissions unit.

2. The permittee shall submit quarterly deviation (excursion) reports that identify records showing that the material used in this emissions unit exceeds the applicable limitation. The notification shall include a copy of such record.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

0.5 lb of VOC/gallon of sealer and adhesive material, excluding water and exempt solvents, as a monthly average

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.1. If required, compliance shall be demonstrated by an evaluation performed in

accordance with OAC rules 3745-21-10(B) using the methods and procedures specified in USEPA Reference Method 24 of 40 CFR Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services. If, pursuant to Method 24, 40 CFR Part 60, Appendix A, the permittee determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

1.b Emission Limitation:

140 tons of VOC/rolling, 12-month period

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1.

1.c Emission Limitation:

The permittee shall not employ any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit.

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.1.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Misc. Solvents and Cleaners Application (P009)
Activity Description: Non-photochemically reactive miscellaneous solvent and cleaner, applications, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Miscellaneous solvents, solvent body wipes and use of other nonphotochemically reactive solvents	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	96.9 tons of volatile organic compounds (VOC)/rolling, 12-month period, and see section A.I.2.a.
	OAC rule 3745-21-07(G)(9)(f)	See section A.I.2.b.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G)(9)(f).

2.b The permittee shall not employ any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit.

II Operational Restrictions

1. The permittee shall employ only dispensers and disposal containers appropriate to minimize exposure times.

III Monitoring and/or Recordkeeping

1. The permittee shall collect and record the following information each month for the solvent body wipes operations:

   a. the company identification for each solvent employed;

   b. a determination of whether each solvent is photochemically reactive or non-photochemically reactive as defined in OAC rule 3745-21-09(C)(5);

   c. the unit quantity of each solvent employed;

   d. the organic compound content of each solvent, in lbs/unit quantity, excluding water and exempt solvents; and

   e. the monthly emissions of VOC and the rolling, 12-month summation of the monthly emissions.

   Formulation data may be used. Alternate, equivalent record keeping methods may be used upon written approval by the Toledo Division of Environmental Services.

IV Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any photochemically reactive solvent material that was used in this emissions unit.

2. The permittee shall submit quarterly deviation (excursion) reports that identify records showing that the material used in this emissions unit exceeds the applicable limitation. The notification shall include a copy of such record.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

96.9 tons of VOC/rolling, 12-month period

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1. and OAC rule 3745-21-10(B).

1.b Emission Limitation:

The permittee shall not employ any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit.

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.1.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Plant-Wide Misc. Solvents and Cleaners Application (P010)
Activity Description: Plant wide photochemically reactive miscellaneous solvent and cleaner applications, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Miscellaneous solvents, plantwide use of photochemically reactive solvents	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	5.1 tons of volatile organic compounds (VOC)/rolling, 12-month period, and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20 (PTI 04-01102)	See section A.I.2.b.
	OAC rule 3745-21-07(G)(2)	8 lbs/hr of organic compounds (OC), and 40 lbs/day of OC.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G)(2) and OAC rules 3745-31-10 thru 20.

2.b The requirements established pursuant to this rule are equivalent to the requirements of OAC rule 3745-21-07(G)(2).

II Operational Restrictions

1. The permittee shall employ only dispensers and disposal containers appropriate to minimize exposure times.

III Monitoring and/or Recordkeeping

1. The permittee shall collect and record the following information for each day for the coating operation:

   a. the company identification for each photochemically reactive cleanup material employed;

   b. the number of gallons of each photochemically reactive cleanup material employed;

   c. the OC content of each photochemically reactive cleanup material, in lbs/gal;

   d. the total OC emission rate for all photochemically reactive cleanup materials, in lbs/day;

   e. the total number of hours the emissions unit was in operation;

   f. the average hourly OC emission rate for all photochemically reactive cleanup materials, i.e., (d)/(e), in lbs/hr (average); and

   g. the monthly emissions of OC and the rolling, 12-month summation of the monthly emissions.

2. Formulation data may be used. Alternate, equivalent record keeping methods may be used upon written approval by the Toledo Division of Environmental Services.

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 average hourly organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day; and

   b. an identification of each day during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 40 lbs/day, and the actual organic compound emissions for each such day.

V Testing Requirements

1. Compliance with the emission limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

8 lbs/hr of VOC
40 lbs/day of VOC

Applicable Compliance Method:

Compliance shall be determined through the monitoring and record keeping requirements of section A.III.1.

1.b Emission Limitation:

5.1 tons VOC/rolling, 12-month period

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: BIW Inspection and Grinding (P011)
Activity Description: Body in White (BIW) inspection and grinding process,TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Body in white (BIW) inspection and grinding, building enclosure control	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	2.1 tpy of particulate emissions, and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20 (PTI 04-01102)	0.48 lb/hr of particulate emissions.
	OAC rule 3745-17-07(B)(1)	See section A.I.2.b.
	OAC rule 3745-17-08(B)(3)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1), OAC rule 3745-17-08(B)(3), and OAC rules 3745-31-10 thru 20.

2.b Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

2.c The permittee shall install and use hoods, fans, and/or other equipment to adequately enclose, contain, capture, vent, and control the fugitive dust.

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

1. Compliance with the emission limitation(s) in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.48 lb/hr of particulate emissions

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the emission testing procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A.

1.c Emission Limitation:

2.1 tpy of particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the hourly allowable particulate emission limitation (0.48 lb/hr) by the maximum annual hours of operation (8760 hrs), and then dividing by 2000 lbs/ton.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Finish welding (P012)
Activity Description: Bodyshop welding operations, TNAP

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Finish welding, building enclosure	OAC rule 3745-31-05(A)(3) (PTI 04-01102)	2.4 tpy of particulate emissions, and see section A.I.2.a.
	OAC rules 3745-31-10 thru 20 (PTI 04-01102)	0.56 lb/hr of particulate emissions.
	OAC rule 3745-17-07(B)(1)	See section A.I.2.b.
	OAC rule 3745-17-08(B)(3)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1), OAC rule 3745-17-08(B)(3), and OAC rules 3745-31-10 thru 20.

2.b Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

2.c The permittee shall install and use hoods, fans, and/or other equipment to adequately enclose, contain, capture, vent, and control the fugitive dust.

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

1. Compliance with the emission limitation(s) in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation:

Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

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 using the methods and procedures specified in OAC rule 3745-17-03(B)(1). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

1.b Emission Limitation:

0.56 lb/hr of particulate emissions

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the emission testing procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A.

1.c Emission Limitation:

2.4 tpy of particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the hourly allowable particulate emission limitation (0.56 lb/hr) by the maximum annual hours of operation (8760 hrs), and then dividing by 2000 lbs/ton.

VI Miscellaneous Requirements

None

B. State 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.

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

2. Additional Terms and Conditions

None

II Operational Restrictions

None

III Monitoring and/or Recordkeeping

None

IV Reporting Requirements

None

V Testing Requirements

None

VI Miscellaneous Requirements

None