



State of Ohio Environmental Protection Agency

Street Address:

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

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Mailing Address:

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

10/10/03

CERTIFIED MAIL

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

04-48-01-1640
US Filter Scaltech
Paula Abatie
184 Shuman Blvd.
Suite 300
Naperville, IL 60563

Dear Paula Abatie:

Enclosed is the Ohio EPA Preliminary Proposed Title V permit that was issued in draft form on 06/04/03. 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, 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: 10/10/03	Effective Date: To be entered upon final issuance	Expiration Date: To be entered upon final issuance
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This document constitutes issuance of a Title V permit for Facility ID: 04-48-01-1640 to:
 US Filter Scaltech
 1800 Woodville Road
 Oregon, OH 43693

Emissions Unit ID (Company ID)	Emissions Unit Activity Description
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B001 - (4 mmBtu/hr heater fired by no. 2 fuel oil w/no controls)	P001 (Wastewater sludge dewatering process) Wastewater sludge dewatering process to produce Scafuel.
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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 - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

1. Sunoco, Inc. refinery is the generator of waste streams for which the total annual benzene quantity exceeds 10 megagrams per year (11 tons per year), so 40 CFR Part 61, Subpart FF is applicable to the Sunoco refinery. TWO LLC/US Filter and US Filter Scaltech are independent companies which, by contract, are responsible to treat the Sunoco refinery waste streams. Portions of 40 CFR Part 61, Subpart FF are applicable to the operations of both TWO LLS/US Filter and US Filter Scaltech. TWO LLC/US Filter and US Filter Scaltech will be responsible to the extent of their control of the benzene treatment process.

The relation of these three firms is described below.

- Sunoco, Inc., a refinery operating in Lucas County, contracts the treatment of its wastewater to TWO LLC/US Filter.
- TWO LLC/US Filter owns and operates an API oil-water separator and other wastewater treatment equipment which accepts wastewater which originates, at this time, exclusively from the Sunoco related facilities. TWO LLC/US Filter and Sunoco occupy adjacent and separate areas within the refinery boundaries. TWO LLC/US Filter produces treated water and oil which are returned to Sunoco as separate streams; and a mixture of oil, water, and solids ("sludge") which are sent to US Filter Scaltech for further processing.
- US Filter Scaltech operates sludge processing equipment as a part of the wastewater treatment process and occupies adjacent separate areas within the refinery boundaries to both TWO LLC/US Filter and Sunoco. US Filter Scaltech receives oil, water and solid mixtures from TWO LLC/US Filter or from Sunoco, exclusively (at this time). US Filter Scaltech separates these waste streams into a water and oil mixture, which is returned to TWO LLC/US Filter, oil which is returned to Sunoco, and a high solids filtercake which is hauled offsite for disposal.

2. The following insignificant emissions unit is located at this facility:

T001 - 1,000-gallon #2 fuel oil tank (PTI 04-781).

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 Permit To Install Facility Specific Terms and Conditions

None

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

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
B001 - 4 mmBtu/hr heater fired by no. 2 fuel oil w/no controls	OAC rule 3745-31-05(A)(3) established by PTI 04-781 as modified April 20, 1994	0.50 lb sulfur dioxide (SO ₂)/mmBtu 0.0024 lb volatile organic compounds (VOC)/mmBtu 0.14 lb nitrogen oxides (NO _x)/mmBtu 0.035 lb carbon dioxide (CO)/mmBtu See sections A.I.2.a and A.I.2.b.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb particulate emissions (PE)/mmBtu of actual heat input
	OAC rule 3745-18-06(A)	exempt, less than 10 mmBtu/hr
	OAC rule 3745-21-08(B)	See section A.I.2.c.
	OAC rule 3745-23-06(B)	See section A.I.2.d.

2. Additional Terms and Conditions

- 2.a The short-term emission limitations for CO, NO_x and VOC were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not

necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

- 2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), 3745-17-10(B), 3745-21-08(B), and 3745-23-06(B).
- 2.c The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-781.

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.d 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 04-781.

II. Operational Restrictions

- 1. The permittee shall burn only no. 2 fuel oil as fuel in this emissions unit.
- 2. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable SO₂ emission limitation specified in section A.I.1 above.

III. Monitoring and/or Record Keeping Requirements

- 1. For each day during which the permittee burns a fuel other than no. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content. The SO₂ emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).
- 3. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than no. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify the Toledo Division of Environmental Services in writing of any record which shows a deviation of the allowable SO₂ emission limitation based upon the calculated SO₂ emission rates from section A.III above. 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 deviation occurs.

V. Testing Requirements

1. Compliance with the allowable emission limitations in this permit shall be determined according to the following methods:

- a. Emission Limitation:

0.50 lb SO₂/mmBtu of actual heat input

Applicable Compliance Method:

Compliance with the allowable SO₂ emission limitation shall be demonstrated by documenting the sulfur content of each shipment of oil received as specified in section A.III.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with the methods and procedures specified in OAC rule 3745-18-04.

- b. Emission Limitation:

0.0024 lb VOC/mmBtu

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 25 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-21-10.

- c. Emission Limitation:

0.14 lb NO_x/mmBtu

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 7 of 40 CFR Part 60, Appendix A.

d. Emission Limitation:

0.035 lb CO/mmBtu

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 10 of 40 CFR Part 60, Appendix A.

e. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

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

f. Emission Limitation:

0.020 lb PE/mmBtu

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 5 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(9).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. **Additional Terms and Conditions**

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P001 - API waste minimization facility; equipment includes process vessels, process vents from a centrifugal wastewater sludge dewatering unit, and a condenser controlled by a closed vent system with a thermal incinerator.	OAC rule 3745-31-05(A)(3) established by PTI 04-781 as modified April 20, 1994	0.35 pound of volatile organic compounds (VOC) per hour from the control device
		1.53 tons of VOC per year
		See section A.I.2.a.
	40 CFR Part 60, Subpart QQQ	See section A.I.2.b.
	40 CFR Part 61, Subpart FF	See section A.I.2.c.
	40 CFR Part 63, Subpart A	See section A.I.2.d.
	40 CFR Part 63, Subpart CC	See section A.I.2.e.
	OAC rule 3745-21-09(M)(2)	See section A.I.2.f.
equipment leaks	OAC rule 3745-21-09(T)	See section A.I.2.g.
	40 CFR Part 63, Subpart A	See section A.I.2.d.
	40 CFR Part 63, Subpart CC	See section A.I.2.h.
solids storage container loading, fugitive emissions with no controls	OAC rule 3745-31-05(A)(3)	0.09 pound of particulate emissions (PE) per hour
		0.16 ton PE per year

OAC rule 3745-17-07(B)(1)	See section A.I.2.i. Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average.
OAC rule 3745-17-08(B)(3)	See section A.I.2.j.

2. Additional Terms and Conditions

- 2.a i. The requirements of this rule also include compliance with the requirements of 40 CFR Part 61, Subpart FF.
- ii. The hourly and annual emission limitations were established for PTI purposes to reflect the potential to emit for this emissions unit while operating with 95% effective control. Therefore, if the control efficiency is enforced, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.
- 2.b i. [60.690(a)(1) thru (4)]
The provisions of 40 CFR Part 60, Subpart QQQ apply to the following affected facilities located in petroleum refineries: an individual drain system, an oil-water separator, and an aggregate facility.
- ii. [63.641(o)(1)]
A Group 1 wastewater stream managed in a piece of equipment that is also subject to the provisions of 40 CFR 60 Subpart QQQ is required to comply only with 40 CFR Part 63, Subpart CC.
- 2.c i. The permittee shall comply with the applicable portions of 40 CFR Part 61, Subpart FF for the following affected sources: tanks [61.343], surface impoundments [61.344], containers [61.345], individual drain systems [61.346], oil water separators [61.347] and treatment processes [61.348].
- ii. [61.340(b)]
The provisions of 40 CFR Part 61, Subpart FF apply to the permittee of hazardous waste treatment, storage, and disposal facilities that treat, store, or dispose of hazardous waste generated by a petroleum refinery. The waste streams at hazardous waste treatment, storage, and disposal facilities subject to the provisions of this 40 CFR Part 61, Subpart FF are the benzene-containing hazardous wastes from the petroleum refinery. A hazardous waste treatment, storage, and disposal facility is a facility that must obtain a hazardous waste management permit under subtitle C of the Solid Waste Disposal Act.

- iii. [61.343(a)(1)]
The permittee shall operate and maintain a fixed roof and closed-vent system that routes all organic vapors to a control device.
 - iv. [61.348(a)(i)(1)]
Except as otherwise provided in 40 CFR 61.348, the permittee shall operate, and maintain a treatment process that removes benzene from the waste stream to a level less than 10 parts per million by weight (ppmw) on a flow-weighted annual average basis.
 - v. [61.349(a)(1)(i)]
The closed vent system shall be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background.
 - vi. [61.349(a)(2)]
The control device shall be designed and operated in accordance with the following conditions:
 - (a) [61.349(a)(2)(i)]
An enclosed combustion device (e.g., a vapor incinerator, boiler, or process heater) shall meet one of the following conditions:
 - (i) Reduce the organic emissions vented to it by 95 weight percent or greater;
 - (ii) Achieve a total organic compound concentration of 20 ppmv (as the sum of the concentrations for individual compounds using Method 18) on a dry basis corrected to 3 percent oxygen; or
 - (iii) Provide a minimum residence time of 0.5 seconds at a minimum temperature of 760°C.
 - (b) [61.349(a)(2)(ii)]
A vapor recovery system (e.g., a carbon adsorption system or a condenser) shall recover or control the organic emissions vented to it with an efficiency of 95 weight percent or greater, or shall recover or control the benzene emissions vented to it with an efficiency of 98 weight percent or greater.
- 2.d The permittee shall comply with the applicable portions 40 CFR Part 63, Subpart A as specified in Table 6 of 40 CFR Part 63, Subpart CC.
- 2.e i. [63.640(c)]
For the purpose of 40 CFR Part 63, Subpart CC, the affected source shall comprise all emission points, in combination, listed in 63.640(c)(1) through (c)(7)

- that are located at a single refinery plant site, i.e., [63.640(c)(3)] all wastewater streams and treatment operations associated with petroleum refining process units;
- ii. [63.647(a)]
For every Group 1 wastewater stream, the permittee shall comply with the requirements of 61.340 through 61.355 of 40 CFR Part 61, Subpart FF.
 - iii. [63.647(b)]
All terms not defined in 40 CFR 63.641 shall have the meaning given them in the Clean Air Act or in 40 CFR Part 61, Subpart FF, 61.341.
 - iv. [63.654(a)]
For every Group 1 wastewater stream, the permittee shall comply with the record keeping and reporting provisions in 40 CFR Part 61.356 and 61.357 of Subpart FF.
- 2.f. 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.g. i. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 63, Subpart CC.
- ii. The permittee shall comply with the VOC leak detection and repair program requirements of OAC rule 3745-21-09(T) by maintaining compliance with the operational restrictions, monitoring, record keeping and reporting requirements of 40 CFR Part 63, Subpart CC for all VOC process equipment leaks.
- 2.h [63.648(a)]
The permittee shall comply with the provisions of 40 CFR Part 60, Subpart VV and 63.648(b) except as provided in 63.648(a)(1), (a)(2) and 40 CFR Part 63.648(c) through (i).
- i. [63.648(a)(1)]
For purposes of compliance with 40 CFR Part 63, Subpart CC, the provisions of 40 CFR Part 60, Subpart VV apply only to equipment in organic HAP service, as defined in 40 CFR 63.641.
 - ii. [63.648(a)(2)]
Calculation of percentage leaking equipment components for Subpart VV of 40 CFR Part 60 may be done on a process unit basis or a source-wide basis. Once the permittee has decided, all subsequent calculations shall be on the same basis unless a permit change is made.
- 2.i i. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1) and OAC rule 3745-17-08(B)(3).

- ii. The hourly and annual emission limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.
- 2.j. The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.

II. Operational Restrictions

1. 40 CFR Part 61, Subpart FF REQUIREMENTS

a. [61.342] STANDARDS: GENERAL

i. [61.342(c)(1)]

For each waste stream that contains benzene, including (but not limited to) organic waste streams that contain less than 10 percent water and aqueous waste streams, even if the wastes are not discharged to an individual drain system, the permittee shall:

(a) [61.342(c)(1)(i)]

Remove or destroy the benzene contained in the waste using a treatment process or wastewater treatment system that complies with the standards specified in 40 CFR 61.348 as described in section A.2.c. above.

(b) [61.342(c)(1)(ii)]

Comply with the applicable standards specified in 40 CFR Part 61.343 through 61.347 below, for each waste management unit that receives or manages the waste stream prior to and during treatment of the waste stream in accordance with 40 CFR Part 61.342(c)(1)(i) above.

(c) [61.342(c)(1)(iii)]

Each waste management unit used to manage or treat waste streams that will be recycled to a process shall comply with the standards specified in 40 CFR Part 61.343 through 61.347 below. Once the waste stream is recycled to a process, including to a tank used for the storage of production process feed, product, or product intermediates, unless this tank is used primarily for the storage of wastes, the material is no longer subject to 40 CFR Part 61.342(c).

ii. [61.342(c)(2)]

A waste stream is exempt from paragraph 40 CFR 61.342(c)(1), as described in paragraph a. above, provided that the permittee demonstrates initially and, thereafter, at least once per year that the flow-weighted annual average benzene concentration for the waste stream is less than 10 ppmw as determined by the procedures specified in 40 CFR 61.355(c)(2) or 40 CFR 61.355(c)(3).

- iii. [61.342(f)]

Rather than treating the waste onsite, the permittee may elect to comply with 40 CFR 61.342(c)(1)(i) of this section by transferring the waste offsite to another facility where the waste is treated in accordance with the requirements of 40 CFR 61.342(c)(1)(i) [see section A.II.] of this section. The permittee transferring the waste shall:

 - (a) [61.342(f)(1)]

Comply with the standards specified in 40 CFR 61.343 through 61.347 of this subpart [see sections A.II. and A.III.] for each waste management unit that receives or manages the waste prior to shipment of the waste offsite.
 - (b) [61.342(f)(2)]

Include with each offsite waste shipment a notice stating that the waste contains benzene which is required to be managed and treated in accordance with the provisions of this subpart.

b. [61.345] STANDARDS: CONTAINERS

- i. [61.345(a)]

The permittee shall meet the following standards for each container in which waste is placed in accordance with 40 CFR 61.342(c)(1)(ii) [see section A.II.] of this subpart:

 - (a) [61.345(a)(1)]

The permittee shall install, operate, and maintain a cover on each container used to handle, transfer, or store waste in accordance with the following requirements:

 - (i) [61.345(a)(1)(i)]

The cover and all openings (e.g., bungs, hatches, and sampling ports) shall be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h) [see section A.V.].
 - (ii) [61.345(a)(1)(ii)]

Except as provided in paragraph (a)(4) of this section, each opening shall be maintained in a closed, sealed position (e.g., covered by a lid that is gasketed and latched) at all times that waste is in the container except when it is necessary to use the opening for waste loading, removal, inspection, or sampling.
 - (b) [61.345(a)(2)]

When a waste is transferred into a container by pumping, the permittee shall perform the transfer using a submerged fill pipe. The submerged fill

pipe outlet shall extend to within two fill pipe diameters of the bottom of the container while the container is being loaded. During loading of the waste, the cover shall remain in place and all openings shall be maintained in a closed, sealed position except for those openings required for the submerged fill pipe, those openings required for venting of the container to prevent physical damage or permanent deformation of the container or cover, and any openings complying with 61.345(a)(4) [paragraph b.i.(d) of this section].

- (c) [61.345(a)(3)]

Treatment of a waste in a container, including aeration, thermal or other treatment, must be performed by the permittee in a manner such that while the waste is being treated the container meets the standards specified in 61.345(a)(3)(i) through (iii) [paragraphs b.i.(c)(i) through b.i.(c)(iii) of this section], except for covers and closed-vent systems that meet the requirements in 61.345(a)(4) [paragraph b.i.(d) of this section].

 - (i) [61.345(a)(3)(i)]

The permittee must either:

 - (A) [61.345(a)(3)(i)(A)]

Vent the container inside a total enclosure which is exhausted through a closed-vent system to a control device in accordance with the requirements of 61.345(a)(3)(ii)(A) and (B) [paragraphs b.i.(c)(ii)(A) and (B) of this section]; or
 - (B) [61.345(a)(3)(i)(B)]

Vent the covered or closed container directly through a closed-vent system to a control device in accordance with the requirements of 61.345(a)(3)(ii)(B) and (C) [paragraphs (a)(3)(ii)(B) and (C) of this section].
 - (ii) [61.345(a)(3)(ii)]

The permittee must meet the following requirements, as applicable to the type of air emission control equipment selected by the permittee:

 - (A) [61.345(a)(3)(ii)(A)]

The total enclosure must be designed and operated in accordance with the criteria for a permanent total enclosure as specified in section 5 of the "Procedure T—Criteria for and Verification of a Permanent or Temporary Total Enclosure" in 40 CFR 52.741, Appendix B. The enclosure may have permanent or temporary openings to allow worker access; passage of containers through the enclosure

by conveyor or other mechanical means; entry of permanent mechanical or electrical equipment; or direct airflow into the enclosure. The permittee must perform the verification procedure for the enclosure as specified in section 5.0 of "Procedure T—Criteria for and Verification of a Permanent or Temporary Total Enclosure" initially when the enclosure is first installed and, thereafter, annually. A facility that has conducted an initial compliance demonstration and that performs annual compliance demonstrations in accordance with the Container Level 3 control requirements in 40 CFR 264.1086(e)(2)(i) or 40 CFR 265.1086(e)(2)(i) is not required to make repeat demonstrations of initial and continuous compliance for the purposes of this subpart.

(B) [61.345(a)(3)(ii)(B)]
The closed-vent system and control device must be designed and operated in accordance with the requirements of 61.349 [see sections A.II. and A.III.].

(C) [61.345(a)(3)(ii)(C)]
For a container cover, the cover and all openings (*e.g.*, doors, hatches) must be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, initially and thereafter at least once per year by the methods specified in § CFR 61.355(h) [see section A.V.].

(iii) [61.345(a)(3)(iii)]
Safety devices, as defined in this subpart, may be installed and operated as necessary on any container, enclosure, closed-vent system, or control device used to comply with the requirements of this section.

(d) [61.345(a)(4)]
If the cover and closed-vent system operate such that the container is maintained at a pressure less than atmospheric pressure, the permittee may operate the system with an opening that is not sealed and kept closed at all times if the following conditions are met:

(i) [61.345(a)(4)(i)]
The purpose of the opening is to provide dilution air to reduce the explosion hazard;

(ii) [61.345(a)(4)(ii)]
The opening is designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above

background, as determined initially and thereafter at least once per year by methods specified in 61.355(h) [see section A.V.]; and

- (iii) [61.345(a)(4)(iii)]
The pressure is monitored continuously to ensure that the pressure in the container remains below atmospheric pressure.

c. [61.346] STANDARDS: INDIVIDUAL DRAIN SYSTEMS

- i. [61.346(a)]
Except as provided in 40 CFR Part 61.346(b) of this subpart, the permittee shall meet the following standards for each individual drain system in which waste is placed in accordance with 40 CFR 61.342(c)(1)(ii) [see section A.II.]:
 - (a) [61.346(a)(1)]
The permittee shall install, operate, and maintain on each drain system opening a cover and closed-vent system that routes all organic vapors vented from the drain system to a control device.
 - (i) [61.346(a)(1)(i)]
The cover shall meet the following requirements:
 - (A) [61.346(a)(1)(i)(A)]
The cover and all openings (e.g., access hatches, sampling ports) shall be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h) [see section A.V.] of this subpart.
 - (B) [61.346(a)(1)(i)(B)]
Each opening shall be maintained in a closed, sealed position (e.g., covered by a lid that is gasketed and latched) at all times that waste is in the drain system except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair.
 - (C) [61.346(a)(1)(i)(C)]
If the cover and closed-vent system operate such that the individual drain system is maintained at a pressure less than atmospheric pressure, then 40 CFR 61.346 (a)(1)(i)(B) [see above paragraph f this section] does not apply to any opening that meets all of the following conditions:

- (I) The purpose of the opening is to provide dilution air to reduce the explosion hazard;
- (II) The opening is designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h) [see section A.V.]; and
- (III) The pressure is monitored continuously to ensure that the pressure in the individual drain system remains below atmospheric pressure.

- (ii) [61.346(a)(1)(ii)]
The closed-vent system and control device shall be designed and operated in accordance with 40 CFR 61.349 [see sections A.II. and A.III.].

d. [61.347] STANDARDS: OIL-WATER SEPARATORS

- i. [61.347(a)]
The permittee shall meet the following standards for each oil-water separator in which waste is placed in accordance with 40 CFR. 61.342(c)(1)(ii) [see section A.II.]:

- (a) [61.347(a)(1)]
The permittee shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the oil-water separator to a control device.

- (i) [61.347(a)(1)(i)]
The fixed-roof shall meet the following requirements:

- (A) The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) shall be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h) [see section A.V.].
- (B) Each opening shall be maintained in a closed, sealed position (e.g., covered by a lid that is gasketed and latched) at all times that waste is in the oil-water separator except when it is necessary to use the opening for waste sampling

or removal, or for equipment inspection, maintenance, or repair.

(C) If the cover and closed-vent system operate such that the oil-water separator is maintained at a pressure less than atmospheric pressure, then 40 CFR 61.347(a)(1)(i)(B) [described in paragraph d.i.(a)(i)(B) in this section], does not apply to any opening that meets all of the following conditions:

- (I) The purpose of the opening is to provide dilution air to reduce the explosion hazard;
- (II) The opening is designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h) [see section A.V.]; and
- (III) The pressure is monitored continuously to ensure that the pressure in the oil-water separator remains below atmospheric pressure.

(ii) [61.347(a)(1)(ii)]
The closed-vent system and control device shall be designed and operated in accordance with the requirements of 40 CFR 61.349 [see sections A.II. and A.III.].

e. [61.348] STANDARDS: TREATMENT PROCESSES

i. [61.348(a)(2)]
Each treatment process shall be designed and operated in accordance with the appropriate waste management unit standards specified in 40 CFR 61.343 through 61.347 [see sections A.II. and A.III.].

ii. [61.348(d)]
A treatment process or waste stream is in compliance with the requirements of 40 CFR 61.348 and exempt from the requirements of 40 CFR 61.348(c) provided that the permittee documents that the treatment process or waste stream is in compliance with other regulatory requirements as follows:

[61.348(d)(3)]
The waste stream is treated by a means or to a level that meets benzene-specific treatment standards in accordance with the Land Disposal Restrictions under 40 CFR Part 268, and the treatment process is designed and operated with a

closed-vent system and control device meeting the requirements of 40 CFR 61.349 [see section A.II.] as described below.

- iii. [61.348(e)]

Except as specified in paragraph 40 CFR 61.348(e)(3) [see section A.II.] as described in paragraph e.iii. below, if the treatment process or wastewater treatment system unit has any openings (e.g., access doors, hatches, etc.), all such openings shall be sealed (e.g., gasketed, latched, etc.) and kept closed at all times when waste is being treated, except during inspection and maintenance.

 - (a) [61.348(e)(1)]

Each seal, access door, and all other openings shall be checked by visual inspections initially and quarterly thereafter to ensure that no cracks or gaps occur and that openings are closed and gasketed properly.
 - (b) [61.348(e)(2)]

Except as provided in 40 CFR 61.350 [see section A.III.], when a broken seal or gasket or other problem is identified, first efforts at repair shall be made as soon as practicable, but not later than 15 calendar days after identification.
 - (c) [61.348(e)(3)]

If the cover and closed-vent system operate such that the treatment process and wastewater treatment system unit are maintained at a pressure less than atmospheric pressure, the permittee may operate the system with an opening that is not sealed and kept closed at all times if the following conditions are met:

 - (i) [61.348(e)(3)(i)]

The purpose of the opening is to provide dilution air to reduce the explosion hazard;
 - (ii) [61.348(e)(3)(ii)]

The opening is designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h) [see section A.V.]; and
 - (iii) [61.348(e)(3)(iii)]

The pressure is monitored continuously to ensure that the pressure in the treatment process and wastewater treatment system unit remain below atmospheric pressure.
- iv. [61.348(f)]

Except for treatment processes complying with 40 CFR 61.348(d) [see section A.II.], the Administrator may request at any time an owner or operator demonstrate that a treatment process or wastewater treatment system unit meets the applicable requirements specified in 40 CFR 61.348(a) [see section A.II.], as described above by conducting a performance test using the test methods and procedures as required in 40 CFR 61.355 [see section A.V.].

- v. [61.348(g)]
The permittee of a treatment process or wastewater treatment system unit that is used to comply with the provisions of this section shall monitor the unit in accordance with the applicable requirements in 40 CFR 61.354 [see section A.III.].

f. [61.349] STANDARDS: CLOSED VENT SYSTEMS AND CONTROL DEVICES

- i. [61.349(a)]
The permittee shall properly design, install, operate, and maintain the closed-vent system and control device in accordance with the following requirements.

- (a) [61.349(a)(1)]
The closed-vent system shall:

- (i) [61.349(a)(1)(i)]
Be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h) [see section A.V.].

- (ii) [61.349(a)(1)(ii)]
Vent systems that contain any bypass line that could divert the vent stream away from a control device used to comply with the provisions of Subpart FF shall install, maintain, and operate according to the manufacturer's specifications a flow indicator that provides a record of vent stream flow away from the control device at least once every 15 minutes, except as provided in 40 CFR 61.349(a)(1)(ii)(B) [paragraph f.i.(a)(ii)(B) of this section].

- (A) [61.349(a)(1)(ii)(A)]
The flow indicator shall be installed at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere.

- (B) [61.349(a)(1)(ii)(B)]
Where the bypass line valve is secured in the closed position with a car-seal or a lock-and-key type configuration, a flow indicator is not required.

- (iii) [61.349(a)(1)(iii)]
All gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
 - (iv) [61.349(a)(1)(iv)]
For each closed-vent system complying with 40 CFR 61.349(a) as described in paragraph a. above, one or more devices which vent directly to the atmosphere may be used on the closed-vent system provided each device remains in a closed, sealed position during normal operations except when the device needs to open to prevent physical damage or permanent deformation of the closed-vent system resulting from malfunction of the unit in accordance with good engineering and safety practices for handling flammable, explosive, or other hazardous materials.
- (b) [61.349(a)(2)]
The control device shall be designed and operated in accordance with the following conditions:
- (i) [61.349(a)(2)(i)]
An enclosed combustion device (e.g., a vapor incinerator, boiler, or process heater) shall meet one of the following conditions:
 - (A) Reduce the organic emissions vented to it by 95 weight percent or greater;
 - (B) Achieve a total organic compound concentration of 20 ppmv (as the sum of the concentrations for individual compounds using Method 18) on a dry basis corrected to 3 percent oxygen; or
 - (C) Provide a minimum residence time of 0.5 seconds at a minimum temperature of 760°C. If a boiler or process heater issued as the control device, then the vent stream shall be introduced into the flame zone of the boiler or process heater.
 - (ii) [61.349(a)(2)(ii)]
A vapor recovery system (e.g., a carbon adsorption system or a condenser) shall recover or control the organic emissions vented to it with an efficiency of 95 weight percent or greater, or shall recover or control the benzene emissions vented to it with an efficiency of 98 weight percent or greater.

- ii. [61.349(b)]
Each closed-vent system and control device used to comply with 40 CFR Part 61, Subpart FF shall be operated at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device.
- 2. 40 CFR Part 63, Subpart A REQUIREMENTS
[63.6(f)(1) and 63.6(h)(1)]
Compliance with the 40 CFR Part 63 emissions limitations shall apply at all times except periods of startup, shutdown and malfunction, and as otherwise specified.
- 3. 40 CFR Part 63, Subpart CC REQUIREMENTS
 - a. [63.642(k)] STANDARDS: GENERAL
Except as otherwise provided in 40 CFR Part 63.642(i), the permittee shall comply, with the wastewater provisions in 40 CFR 63.647 [see section A.I.2.].
 - i. [63.642(k)(1)]
The permittee using this compliance approach shall also comply with the requirements of 40 CFR 63.654 [see section A.III.] as applicable.
 - ii. [63.642(k)(2)]
The permittee using this compliance approach is not required to calculate the annual emission rate specified in 40 CFR Part 63.642(g).
 - b. [63.647(c)] STANDARDS: WASTEWATER PROVISIONS
Each permittee required under Subpart FF of 40 CFR Part 61 to perform periodic measurement of benzene concentration in wastewater, or to monitor process or control device operating parameters shall operate in a manner consistent with the minimum or maximum (as appropriate) permitted concentration or operating parameter values. Operation of the process, treatment unit, or control device resulting in a measured concentration or operating parameter value outside the permitted limits shall constitute a violation of the emission standards. Failure to perform required leak monitoring for closed vent systems and control devices or failure to repair leaks within the time period specified in Subpart FF of 40 CFR Part 61 shall constitute a violation of the standard.
 - c. [63.648(b)] STANDARDS: EQUIPMENT LEAK STANDARDS
The use of monitoring data generated before August 18, 1995 to qualify for less frequent monitoring of valves and pumps as provided under 40 CFR Part 60, Subpart VV and 40 CFR 63.648(c) (i.e., quarterly or semiannually) is governed by the requirements of 63.648(b)(1) and (b)(2) as described in paragraphs c.i. and c.ii. below.
 - i. [63.648(b)(1)]
Monitoring data must meet the test methods and procedures specified in 40 CFR 60.485(b) [see section A.V.] of Subpart VV except for minor departures.

- ii. [63.648(b)(2)]
Departures from the criteria specified in 40 CFR 60.485(b) [see section A.V.] or from the monitoring frequency specified in Subpart VV or in 40 CFR 63.648(c) (such as every 6 weeks instead of monthly or quarterly) are minor and do not significantly affect the quality of the data. An example of a minor departure is monitoring at a slightly different frequency (such as every 6 weeks instead of monthly or quarterly). Failure to use a calibrated instrument is not considered a minor departure.

4. 40 CFR Part 60, Subpart VV REQUIREMENTS

a. [60.482-1] STANDARDS: GENERAL

- i. [60.482-1(a)]
Each permittee subject to the provisions of 40 CFR Part 60, Subpart VV shall demonstrate compliance with the applicable requirements of 40 CFR 60.482-1 to 60.482-10 [see section A.III.] for the following affected equipment: pumps, compressors, pressure relief devices, sampling connections, valves, flanges and other connectors.
- ii. [60.482-1(b)]
Compliance with 40 CFR 60.482-1 to 60.482-10 [see section A.III.] will be determined by review of records and reports, review of performance test results, and inspection using the methods and procedures specified in 40 CFR 60.485 [see section A.V.].
- iii. [60.482-1(c)]
 - (a) [60.482-1(c)(1)]
A permittee may request a determination of equivalence of a means of emission limitation to the requirements of 40 CFR 60.482-2, 60.482-3, 60.482-5, 60.482-6, 60.482-7, 60.482-8, and 60.482-10 [see section A.V.] as provided in 40 CFR Part 60.484.
 - (b) [60.482-1(c)(2)]
If the Administrator makes a determination that a means of emission limitation is at least equivalent to the requirements of 40 CFR 60.482-2, 60.482-3, 60.482-5, 60.482-6, 60.482-7, 60.482-8, and 60.482-10 [see section A.III.], a permittee shall comply with the requirements of that determination.
- iv. [60.482-1(d)]
Equipment that is in vacuum service is excluded from the requirements of 40 CFR 60.482-2 through 60.482-10 [see section A.III.] if it is identified as required in 40 CFR 60.486(e)(5) [see section A.III.].

5. OAC rule 3745-17-07(B)(1), 17-08(B)(3) and 31-05(A)(3) requirements
The permittee shall maintain sufficient moisture in the solid waste cooling auger to minimize or eliminate the visible emissions of fugitive dust.

III. Monitoring and/or Record Keeping Requirements

1. 40 CFR Part 61, Subpart FF
 - a. [61.345] STANDARDS: CONTAINERS
 - i. [61.345(b)]
Each cover and all openings shall be visually inspected initially and quarterly thereafter to ensure that they are closed and gasketed properly.
 - ii. [61.345(c)]
Except as provided in 40 CFR 61.350 [see section A.III.], when a broken seal or gasket or other problem is identified, first efforts at repair shall be made as soon as practicable, but not later than 15 calendar days after identification.
 - b. [61.346] STANDARDS: INDIVIDUAL DRAIN SYSTEMS
 - i. [61.346(a)(2)]
Each cover seal, access hatch, and all other openings shall be checked by visual inspection initially and quarterly thereafter to ensure that no cracks or gaps occur and that access hatches and other openings are closed and gasketed properly.
 - ii. [61.346(a)(3)]
Except as provided 40 CFR 61.350 [see section A.III.], when a broken seal or gasket or other problem is identified, or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 15 calendar days after identification.
 - c. [61.347] STANDARDS: OIL-WATER SEPARATORS
 - i. [61.347(b)]
Each cover seal, access hatch, and all other openings shall be checked by visual inspection initially and quarterly thereafter to ensure that no cracks or gaps occur between the cover and oil-water separator wall and that access hatches and other openings are closed and gasketed properly.
 - iii. [61.347(c)]
Except as provided in 40 CFR 61.350 [see section A.III.], when a broken seal or gasket or other problem is identified, or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 15 calendar days after identification.

- d. [61.349] STANDARDS: CLOSED VENT SYSTEMS AND CONTROL DEVICES
- i. [61.349(c)]

The permittee shall demonstrate that each control device, except for a flare, achieves the appropriate conditions specified in 61.349(a)(2) [see section A.II.] by using one of the following methods:

 - (a) [61.349(c)(1)]

Engineering calculations in accordance with requirements specified in 40 CFR 61.356(f) [see section A.III.]; or
 - (b) [61.349(c)(2)]

Performance tests conducted using the test methods and procedures that meet the requirements specified in 40 CFR 61.355 [see section A.III.].
 - ii. [61.349(e)]

The Administrator may request at any time that the permittee demonstrate that a control device meets the applicable conditions specified in 40 CFR 61.349(a)(2) [see section A.II.] above, by conducting a performance test using the test methods and procedures as required in 40 CFR 61.355 [see section A.V.].
 - iii. [61.349(f)]

Each closed-vent system and control device shall be visually inspected initially and quarterly thereafter. The visual inspection shall include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections.
 - iv. [61.349(g)]

Except as provided in 40 CFR 61.350 [see section A.III.], if visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, a first effort to repair the closed-vent system and control device shall be made as soon as practicable but no later than 5 calendar days after detection. Repair shall be completed no later than 15 calendar days after the emissions are detected or the visible defect is observed.
 - v. [61.349(h)]

The permittee with a control device that is used to comply with the provisions of 40 CFR 61.349 [see sections A.II. and A.III.] shall monitor the control device in accordance with 40 CFR 61.354(c) [see section A.III.].
- e. [61.350] STANDARDS: DELAY OF REPAIR
- i. [61.350(a)]

Delay of repair of facilities or units that are subject to the provisions of 40 CFR Part 61, Subpart FF will be allowed if the repair is technically impossible without a complete or partial facility or unit shutdown.

- ii. [61.350(b)]
Repair of such equipment shall occur before the end of the next facility or unit shutdown.

- f. [61.354] MONITORING OF OPERATIONS
 - i. [61.354(c)]
The permittee subject to the requirements of 40 CFR 61.349 [see sections A.II. and A.III.] shall install, calibrate, maintain, and operate according to the manufacturer's specifications a device to continuously monitor the control device operation as specified in the following paragraph, unless alternative monitoring procedures or requirements are approved for that facility by the Administrator. The permittee shall inspect at least once each operating day the data recorded by the monitoring equipment (e.g., temperature monitor or flow indicator) to ensure that the control device is operating properly.
 - (a) [61.354(c)(4)]
For a boiler or process heater having a design heat input capacity less than 44 MW (150 mmBtu/hr), a temperature monitoring device equipped with a continuous recorder. The device shall have an accuracy of ± 1 percent of the temperature being monitored in degrees centigrade or ± 0.5 centigrade degrees, whichever is greater. The temperature sensor shall be installed at a representative location in the combustion chamber.
 - (b) [61.354(c)(6) and (c)(6)(ii)]
For a condenser, a temperature monitoring device equipped with a continuous recorder. The device shall be capable of monitoring temperature at two locations, and have an accuracy of ± 1 percent of the temperature being monitored in $^{\circ}\text{C}$ or $\pm 0.5^{\circ}\text{C}$, whichever is greater. One temperature sensor shall be installed at a location in the exhaust stream from the condenser, and a second temperature sensor shall be installed at a location in the coolant fluid exiting the condenser.
 - ii. [61.354(d)]
For a carbon adsorption system that does not regenerate the carbon bed directly on site in the control device (e.g., a carbon canister), either the concentration level of the organic compounds or the concentration level of benzene in the exhaust vent stream from the carbon adsorption system shall be monitored on a regular schedule, and the existing carbon shall be replaced with fresh carbon immediately when carbon breakthrough is indicated. The device shall be monitored on a daily basis or at intervals no greater than 20 percent of the design carbon replacement interval, whichever is greater. As an alternative to conducting this monitoring, the permittee may replace the carbon in the carbon adsorption system with fresh carbon at a regular predetermined time interval that is less than the carbon replacement interval that is determined by the maximum design flow rate and

either the organic concentration or the benzene concentration in the gas stream vented to the carbon adsorption system.

- iii. [61.354(e)]
An alternative operation or process parameter may be monitored if it can be demonstrated that another parameter will ensure that the control device is operated in conformance with these standards and the control device's design specifications.
- iv. [61.354(f)]
Permittees using a closed-vent system that contains any bypass line that could divert a vent stream from a control device used to comply with the provisions of this subpart shall do the following:
 - (a) [61.354(f)(1)]
Visually inspect the bypass line valve at least once every month, checking the position of the valve and the condition of the car-seal or closure mechanism required under 40 CFR 61.349(a)(1)(ii) [see section A.II.] to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line.
 - (b) [61.354(f)(2)]
Visually inspect the readings from each flow monitoring device required by 40 CFR 61.349(a)(1)(ii) [see section A.II.] at least once each operating day to check that vapors are being routed to the control device as required.
- v. [61.354(g)]
Each permittee who uses a system for emission control that is maintained at a pressure less than atmospheric pressure with openings to provide dilution air shall install, calibrate, maintain, and operate according to the manufacturer's specifications a device equipped with a continuous recorder to monitor the pressure in the unit to ensure that it is less than atmospheric pressure.
- g. [61.356] RECORD KEEPING REQUIREMENTS
 - i. [61.356(a)]
The permittee of a facility subject to the provisions of Subpart FF shall comply with the record keeping requirements of this section. Each record shall be maintained in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified.
 - ii. [61.356(c)]
A permittee transferring waste off-site to another facility for treatment in accordance with 40 CFR 61.342(f) [see section A.II.] shall maintain documentation for each offsite waste shipment that includes the following

information: Date waste is shipped offsite, quantity of waste shipped offsite, name and address of the facility receiving the waste, and a copy of the notice sent with the waste shipment.

- iii. [61.356(d)]
The permittee using control equipment in accordance with 40 CFR 61.343 through 61.347 [see sections A.II. and A.III.] shall maintain engineering design documentation for all control equipment that is installed on the waste management unit. The documentation shall be retained for the life of the control equipment. If a control device is used, then the permittee shall maintain the control device records required by 40 CFR 61.356(f) as described below.
- iv. [61.356(e)]
The permittee using a treatment process or wastewater treatment system unit in accordance with 40 CFR 61.348 [see section A.III.] shall maintain the following records. The documentation shall be retained for the life of the unit.
 - (a) [61.356(e)(1)]
A statement signed and dated by the permittee certifying that the unit is designed to operate at the documented performance level when the waste stream entering the unit is at the highest waste stream flow rate and benzene content expected to occur.
 - (b) [61.356(e)(2)]
If engineering calculations are used to determine treatment process or wastewater treatment system unit performance, then the owner or operator shall maintain the complete design analysis for the unit. The design analysis shall include for example the following information: Design specifications, drawings, schematics, piping and instrumentation diagrams, and other documentation necessary to demonstrate the unit performance.
 - (c) [61.356(e)(3)]
If performance tests are used to determine treatment process or wastewater treatment system unit performance, then the permittee shall maintain all test information necessary to demonstrate the unit performance.
 - (i) [61.356(e)(3)(i)]
A description of the unit including the following information: type of treatment process; manufacturer name and model number; and for each waste stream entering and exiting the unit, the waste stream type (e.g., process wastewater, sludge, slurry, etc.), and the design flow rate and benzene content.
 - (ii) [61.356(e)(3)(ii)]
Documentation describing the test protocol and the means by which sampling variability and analytical variability were

accounted for in the determination of the unit performance. The description of the test protocol shall include the following information: sampling locations, sampling method, sampling frequency, and analytical procedures used for sample analysis.

- (iii) [61.356(e)(3)(iii)]
Records of unit operating conditions during each test run including all key process parameters.
- (iv) [61.356(e)(3)(iv)]
All test results.
- (d) [61.356(e)(4)]
If a control device is used, then the permittee shall maintain the control device records required by 40 CFR 61.356(f) below.
- v. [61.356(f)]
A permittee using a closed-vent system and control device in accordance with 40 CFR 61.349 shall maintain the following records. The documentation shall be retained for the life of the control device.
 - (a) [61.356(f)(1)]
A statement signed and dated by the permittee certifying that the closed-vent system and control device is designed to operate at the documented performance level when the waste management unit vented to the control device is or would be operating at the highest load or capacity expected to occur.
 - (b) [61.356(f)(2)]
If engineering calculations are used to determine control device performance in accordance with 40 CFR 61.349(c) [see section A.III.], then a design analysis for the control device that includes for example:
 - (i) [61.356(f)(2)(i)]
Specifications, drawings, schematics, and piping and instrumentation diagrams prepared by the permittee, or the control device manufacturer or vendor that describe the control device design based on acceptable engineering texts. The design analysis shall address the following vent stream characteristics and control device operating parameters:
 - (A) [61.356(f)(2)(i)(C)]
For a boiler or process heater, the design analysis shall consider the vent stream composition, constituent concentrations, and flow rate. The design analysis shall also establish the design minimum and average flame zone

temperatures, combustion zone residence time, and description of method and location where the vent stream is introduced into the flame zone.

(B) [61.356(f)(2)(i)(G)]

For a carbon adsorption system that does not regenerate the carbon bed directly on-site in the control device, such as a carbon canister, the design analysis shall consider the vent stream composition, constituent concentration, flow rate, relative humidity, and temperature. The design analysis shall also establish the design exhaust vent stream organic compound concentration level or the design exhaust vent stream benzene concentration level, capacity of carbon bed, type and working capacity of activated carbon used for carbon bed, and design carbon replacement interval based on the total carbon working capacity of the control device and source operating schedule.

(c) [61.356(f)(3)]

If performance tests are used to determine control device performance in accordance with 40 CFR 61.349(c) [see section A.III.]:

(i) [61.356(f)(3)(i)]

A description of how it is determined that the test is conducted when the waste management unit or treatment process is operating at the highest load or capacity level. This description shall include the estimated or design flow rate and organic content of each vent stream and definition of the acceptable operating ranges of key process and control parameters during the test program.

(ii) [61.356(f)(3)(ii)]

A description of the control device including the type of control device, control device manufacturer's name and model number, control device dimensions, capacity, and construction materials.

(iii) [61.356(f)(3)(iii)]

A detailed description of sampling and monitoring procedures, including sampling and monitoring locations in the system, the equipment to be used, sampling and monitoring frequency, and planned analytical procedures for sample analysis.

(iv) [61.356(f)(3)(iv)]

All test results.

- vi. [61.356(g)]

A permittee shall maintain a record for each visual inspection required by 40 CFR 61.343 through 61.349 [see sections A.II. and A.III.] that identifies a problem (such as a broken seal, gap or other problem) which could result in benzene emissions. The record shall include the date of the inspection, waste management unit and control equipment location where the problem is identified, a description of the problem, a description of the corrective action taken, and the date the corrective action was completed.
- vii. [61.356(h)]

A permittee shall maintain a record for each test of no detectable emissions required by 40 CFR 61.343 through 61.349 [see sections A.II. and A.III.]. The record shall include the following information: date the test is performed, background level measured during test, and maximum concentration indicated by the instrument reading measured for each potential leak interface. If detectable emissions are measured at a leak interface, then the record shall also include the waste management unit, control equipment, and leak interface location where detectable emissions were measured, a description of the problem, a description of the corrective action taken, and the date the corrective action was completed.
- viii. [61.356(j)]

For each control device, the permittee shall maintain documentation that includes the following information regarding the control device operation:

 - (a) [61.356(j)(1)]

Dates of startup and shutdown of the closed-vent system and control device.
 - (b) [61.356(j)(2)]

A description of the operating parameter (or parameters) to be monitored to ensure that the control device will be operated in conformance with these standards and the control device's design specifications and an explanation of the criteria used for selection of that parameter (or parameters). This documentation shall be kept for the life of the control device.
 - (c) [61.356(j)(3)]

Periods when the closed-vent system and control device are not operated as designed including all periods and the duration when:

 - (i) [61.356(j)(3)(i)]

Any valve car-seal or closure mechanism required under 40 CFR 61.349(a)(1)(ii) [see section A.II.] is broken or the by-pass line valve position has changed.

(ii) [61.356(j)(3)(ii)]
The flow monitoring devices required under 40 CFR 61.349(a)(1)(ii) [see section A.II.] indicate that vapors are not routed to the control device as required.

(d) [61.356(j)(6)]
If a boiler or process heater is used, then the permittee shall maintain records of each occurrence when there is a change in the location at which the vent stream is introduced into the flame zone as required by 40 CFR 61.349(a)(2)(i)(C) [see section A.II.]. For a boiler or process heater having a design heat input capacity less than 44 MW (150 mmBtu/hr), the permittee shall maintain continuous records of the temperature of the gas stream in the combustion zone of the boiler or process heater and records of all 3-hour periods of operation during which the average temperature of the gas stream in the combustion zone is more than 28 degrees centigrade (50 degrees Fahrenheit) below the design combustion zone temperature.

(e) [61.356(j)(10)]
If a carbon adsorber that is not regenerated directly on site in the control device is used, then the permittee shall maintain records of dates and times when the control device is monitored, when breakthrough is measured, and shall record the date and time then the existing carbon in the control device is replaced with fresh carbon.

ix. [61.356(m)]
If a system is used for emission control that is maintained at a pressure less than atmospheric pressure with openings to provide dilution air, then the owner or operator shall maintain records of the monitoring device and records of all periods during which the pressure in the unit is operated at a pressure that is equal to or greater than atmospheric pressure.

2. [63.10(b)(2)] 40 CFR Part 63, Subpart A REQUIREMENTS

The permittee shall maintain relevant records of:

- a. [63.10(b)(2)(i)]
The occurrence and duration of each startup, shutdown, or malfunction of operation (i.e., process equipment);
- b. [63.10(b)(2)(ii)]
The occurrence and duration of each malfunction of the air pollution control equipment;
- c. [63.10(b)(2)(iii)]
All required maintenance performed on the air pollution control and monitoring equipment;

- d. [63.10(b)(2)(iv)]
Actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan (see 40 CFR Part 63.6(e)(3)); and
- e. [63.10(b)(2)(v)]
All information necessary to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan (see 40 CFR Part 63.6(e)(3)) when all actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. (The information needed to demonstrate conformance with the startup, shutdown, and malfunction plan may be recorded using a "checklist," or some other effective form of record keeping, in order to minimize the record keeping burden for conforming events).

3. 40 CFR Part 63, Subpart CC REQUIREMENTS

- a. [63.642(e)] STANDARDS: GENERAL
Except as otherwise specified in 40 CFR Part 63, Subpart CC, the permittee shall keep copies of all applicable reports and records required by for at least 5 years. All applicable records shall be maintained in such a manner that they can be readily accessed within 24 hours. Records may be maintained in hard copy or computer-readable form including, but not limited to, on paper, microfilm, computer, floppy disk, magnetic tape, or microfiche.
- b. [63.654] STANDARDS: RECORD KEEPING REQUIREMETNS
 - i. 63.654(a)
Except as otherwise specified in 40 CFR Part 63, Subpart CC, the permittee subject to the wastewater provisions in 40 CFR 63.647 shall comply with the record keeping and reporting provisions in 40 CFR 61.356 and 61.357 [see sections A.III. and A.IV.] of 40 CFR Part 61, Subpart FF. There are no additional reporting and record keeping requirements for wastewater under 40 CFR Part 63, Subpart CC.
 - ii. [63.654(d)]
The permittee subject to the equipment leaks standards in 40 CFR 63.648 [see section A.II.] shall comply with the applicable record-keeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6) as described below.
 - (a) [63.654(d)(1) and (d)(1)(i)]
40 CFR 60.486 and 60.487 of Subpart VV [see sections A.III. and A.IV.] except as specified in paragraph (d)(1)(i) of this section.

The signature of the permittee (or designate) whose decision it was that a repair could not be effected without a process shutdown is not required to be recorded. Instead, the name of the person whose decision it was that a repair could not be effected without a process shutdown shall be recorded and retained for 2 years.

- (b) [63.654(d)(4)]
The permittee must keep a list of identification numbers for valves that are designated as leakless per 40 CFR 63.648(c)(10).
- (c) [63.654(d)(5)]
The permittee must identify, either by list or location (area or refining process unit), equipment in organic HAP service less than 300 hours per year within refining process units subject to this subpart.
- (d) [63.654(d)(6)]
The permittee must keep a list of reciprocating pumps and compressors determined to be exempt from seal requirements as per 40 CFR 63.648(f) and (i).

4. 40 CFR Part 60, Subpart VV

a. [60.482-2] STANDARDS: PUMPS IN LIGHT LIQUID SERVICE

- i. [60.482-2(a)(1)]
Each pump in light liquid service shall be monitored monthly to detect leaks by the methods specified in 40 CFR 60.485(b) [see section A.V.], except as provided in 40 CFR 60.482-1(c) [see section A.II.] and 60.482-2(e) and (f) [see section A.III.].
- ii. [60.482-2(a)(2)]
Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal.
- iii. [60.482-2(b)(1) and (b)(2)]
If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If there are indications of liquids dripping from the pump seal, a leak is detected.
- iv. [60.482-2(c)(1) and (c)(2)]
When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 60.482-9 [see section A.III.]. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

- v. [60.482-2(d)]
Each pump equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of 40 CFR 60.482(a) above, provided the requirements of 40 CFR 60.482-2(d)(1) through (6) are met.
- vi. [60.482-2(e)]
Any pump that is designated for no detectable emission, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of 40 CFR 60.482-2(a), (c) and (d) above, provided the requirements of 40 CFR 60.482-2(e)(1), (2) and (3) are met.
 - (a) [60.482-2(e)(1)]
Has no externally actuated shaft penetrating the pump housing,
 - (b) [60.482-2(e)(2)]
Is demonstrated to be operating with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background as measured by the methods specified in 40 CFR 60.485(c)[see section A.V.], and
 - (c) [60.482-2(e)(3)]
Is tested for compliance with 60.482-2(e)(2) as stated above, initially upon designation, annually, and at other times requested by the Administrator.
- v. [60.482-2(f)]
If any pump is equipped with a closed vent system capable of capturing and transporting any leakage from the seal or seals to a control device that complies with the requirements of 40 CFR 60.482-10 [see section A.V.], it is exempt from 40 CFR 60.482-2(a) through (e) above.
- b. [60.482-4] STANDARDS: PRESSURE RELIEF DEVICES IN GAS/VAPOR SERVICE
 - i. [60.482-4(a)]
Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in 40 CFR 60.485(c) [see section A.V.].
 - ii. [60.482-4(b)(1)]
After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after the pressure release, except as provided in 40 CFR 60.482-9 [see section A.III.].

- iii. [60.482-4(b)(2)]
No later than 5 calendar days after the pressure release, the pressure relief device shall be monitored to confirm the conditions of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, by the methods specified in 40 CFR 60.485(c) [see section A.V.].
- iv. [60.482-4(c)]
Any pressure relief device that is equipped with a closed vent system capable of capturing and transporting leakage through the pressure relief device to a control device as described in 40 CFR 60.482-10 [see section A.III.] is exempted from the requirements of 60.482-4(a) and (b) above.
- c. [60.482-7] STANDARDS: VALVES IN GAS/VAPOR SERVICE AND IN LIGHT LIQUID SERVICE
 - i. [60.482-7(a)]
Each valve shall be monitored monthly to detect leaks by the methods specified in 40 CFR 60.485(b) and shall comply with 40 CFR 60.482-7(b) through (e) below, except as provided in 40 CFR 60.482-7(f), (g) and (h) below, 40 CFR Part 60.483-1, 2, and 40 CFR 60.482-1(c) [see section A.II.].
 - ii. [60.482-7(b)]
If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.
 - iii. (a) [60.482-7(c)(1)]
Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected.
 - (b) [60.482-7(c)(2)]
If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 successive months.
 - iv. (a) [60.482-7(d)(1)]
When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 60.482-9.
 - (b) [60.482-7(d)(2)]
A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.
 - v. [60.482-7(e)]
First attempts at repair include, but are not limited to, the following best practices where practicable:

- (a) [60.482-7(e)(1)]
tightening of bonnet bolts;
 - (b) [60.482-7(e)(2)]
replacement of bonnet bolts;
 - (c) [60.482-7(e)(3)]
tightening of packing gland nuts;
 - (d) [60.482-7(e)(4)]
injection of lubricant into lubricated packing.
- vi. [60.482-7(f)]
Any valve that is designated, as described in 40 CFR 60.486(e)(2) [see section A.III.], for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of 40 CFR 60.482-7(a) [see section A.III.] if the valve:
- (a) [60.482-7(f)(1)]
has no external actuating mechanism in contact with the process fluid;
 - (b) [60.482-7(f)(2)]
is operated with emissions less than 500 ppm above background as determined by the method specified in 40 CFR 60.485(c) [see section A.V.]; and
 - (c) [60.482-7(f)(3)]
is tested for compliance with 40 CFR 60.482-7(f)(2) above, initially upon designation, annually, and at other times requested by the Administrator.
- vii. [60.482-7(g)]
Any valve that is designated, as described in 40 CFR 60.486(f)(1) [see section A.III.], as an unsafe-to-monitor valve is exempt from the requirements of 40 CFR 60.482-7(a) [see section A.III.] if:
- (a) [60.482-7(g)(1)]
the permittee of the valve demonstrates that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 60.482-7(a) [see section A.III.]; and
 - (b) [60.482-7(g)(2)]
the permittee adheres to a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times.

- viii. [60.482-7(h)]
Any valve that is designated, as described in 40 CFR 60.486(f)(2) [see section A.III.] as a difficult-to-monitor valve is exempt from the requirements of 40 CFR 60.482-7(a) [see section A.III.] if:
- (a) [60.482-7(h)(1)]
the permittee demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface.
 - (b) [60.482-7(h)(2)]
the process unit within which the valve is located either becomes an affected facility through 40 CFR Part 60.14 or 60.15 or the permittee designates less than 3.0 percent of the total number of valves as difficult-to-monitor; and
 - (c) [60.482-7(h)(3)]
the permittee follows a written plan that requires monitoring of the valve at least once per calendar year.
- d. [60.482-8] STANDARDS: PUMPS AND VALVES IN HEAVY LIQUID SERVICE, PRESSURE RELIEF DEVICES IN LIGHT LIQUID OR HEAVY LIQUID SERVICE, AND FLANGES AND OTHER CONNECTIONS
- i. [60.482-8(a)]
Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors shall be monitored within 5 days by the method specified in 40 CFR 60.485(b) [see section A.V.] if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method.
 - ii. [60.482-8(b)]
If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.
 - iii. (a) [60.482-8(c)(1)]
When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9 [see section A.III.].

(b) [60.482-8(c)(2)]
The first attempt at repair shall be made no later than 5 calendar days after each leak is detected.
 - iv. [60.482-8(d)]
First attempts at repair include, but are not limited to, the best practices described under 40 CFR 60.482-7(e) above.

- e. [60.482-9] STANDARDS: DELAY OF REPAIR
- i. [60.482-9(a)]
Delay of repair of equipment for which leaks have been detected will be allowed if the repair is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown.
 - ii. [60.482-9(b)]
Delay of repair of equipment will be allowed for equipment which is isolated from the process and which does not remain in VOC service.
 - iii. [60.482-9(c)]
Delay of repair for valves will be allowed if:
 - (a) [60.482-9(c)(1)]
the permittee demonstrates that emissions of purged material resulting from immediate repair are greater than the fugitive emissions likely to result from delay of repair, and
 - (b) [60.482-9(c)(2)]
when repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with 60.482-10 [see section A.III.].
 - iv. [60.482-9(d)]
Delay of repair for pumps will be allowed if:
 - (a) [60.482-9(d)(1)]
repair requires the use of a dual mechanical seal system that includes a barrier fluid system, and
 - (b) [60.482-9(d)(2)]
repair is completed as soon as practicable, but not later than 6 months after the leak was detected.
 - v. [60.482-9(e)]
Delay of repair beyond a process unit shutdown will be allowed for a valve, if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown.
- f. [60.482-10(a)] STANDARDS: CLOSED VENT SYSTEMS AND CONTROL DEVICES

Closed vent systems and control devices used to comply with provisions of 40 CFR 60 Subpart VV shall comply with the provisions of 40 CFR 60.482-10.

g. [60.486] RECORD KEEPING REQUIREMENTS

i. [60.486(a)(1)]

Each permittee subject to the provisions of 40 CFR Part 60, Subpart VV shall comply with the record keeping requirements of 40 CFR 60.486.

ii. [60.486(b)]

When each leak is detected as specified in 40 CFR 60.482-2, 60.482-3, 60.482-7, 60.482-8 [see section A.III.] and 40 CFR Part 60.483-2, the following requirements apply:

(a) [60.486(b)(1)]

A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment.

(b) [60.486(b)(2)]

The identification on a valve may be removed after it has been monitored for 2 successive months as specified in 40 CFR 60.482-7(c) [see section A.III.] and no leak has been detected during those 2 months.

(c) [60.486(b)(3)]

The identification on equipment except on a valve, may be removed after it has been repaired.

iii. [60.486(c)]

When each leak is detected as specified in 40 CFR 60.482-2, 60.482-3, 60.482-7, 60.482-8 [see section A.III.] and 40 CFR Part 60.483-2, the following information shall be recorded in a log and shall be kept for 2 years in a readily accessible location:

(a) [60.486(c)(1)]

The instrument and operator identification numbers and the equipment identification number.

(b) [60.486(c)(2)]

The date the leak was detected and the dates of each attempt to repair the leak.

(c) [60.486(c)(3)]

Repair methods applied in each attempt to repair the leak.

- (d) [60.486(c)(4)]
"Above 10,000" if the maximum instrument reading measured by the methods specified in 40 CFR 60.485(a) [see section A.V.] after each repair attempt is equal to or greater than 10,000 ppm.
 - (e) [60.486(c)(5)]
"Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.
 - (f) [60.486(c)(6)]
The signature of the permittee (or designate) whose decision it was that repair could not be effected without a process shutdown.
 - (g) [60.486(c)(7)]
The expected date of successful repair of the leak if a leak is not repaired within 15 days.
 - (h) [60.486(c)(8)]
Dates of process unit shutdown that occur while the equipment is unrepaired.
 - (i) [60.486(c)(9)]
The date of successful repair of the leak.
- iv. [60.486(d)]
For closed vent systems and control devices used to comply with provisions of 40 CFR Part 60, Subpart VV, the information required by 40 CFR 60.486(d) pertaining to the design requirements shall be recorded and kept in a readily accessible location.
- v. [60.486(e)]
The following information pertaining to all equipment subject to the requirements in 40 CFR 60.482-1 to 60.482-10 [see sections A.II. and A.III.] shall be recorded in a log that is kept in a readily accessible location:
- (a) [60.486(e)(1)]
A list of identification numbers for equipment subject to the requirements of 40 CFR Part 60, Subpart VV.
 - (b) (i) [60.486(e)(2)(i)]
A list of identification numbers for equipment that are designated for no detectable emissions under the provisions of 40 CFR 60.482-2(e) and 60.482-7(f) [see section A.III.].
 - (ii) [60.486(e)(2)(ii)]

The designation of equipment as subject to the requirements of 40 CFR 60.482-2(e) or 60.482-7(f) [see section A.III.] shall be signed by the permittee.

- (c) [60.486(e)(3)]
A list of equipment identification numbers for pressure relief devices required to comply with 40 CFR 60.482-4 below.
 - (d) (i) [60.486(e)(4)(i)]
The dates of each compliance test as required in 40 CFR 60.482-2(e), 60.482-4, and 60.482-7(f) [see section A.III.].
 - (ii) [60.486(e)(4)(ii)]
The background level measured during each compliance test.
 - (iii) [60.486(e)(4)(iii)]
The maximum instrument reading measured at the equipment during each compliance test.
 - (e) [60.486(e)(5)]
A list of identification numbers for equipment in vacuum service.
- vi. [60.486(f)]
The following information pertaining to all valves subject to the requirements of 40 CFR 60.482-7(g) and (h) [see section A.III.] shall be recorded in a log that is kept in a readily accessible location:
- (a) [60.486(f)(1)]
A list of identification numbers for valves that are designated as unsafe-to-monitor, an explanation for each valve stating why the valve is unsafe-to-monitor, and the plan for monitoring each valve.
 - (b) [60.486(f)(2)]
A list of identification numbers for valves that are designated as difficult-to-monitor, an explanation for each valve stating why the valve is difficult-to-monitor, and the schedule for monitoring each value.
- vii. [60.486(h)]
The following information shall be recorded in a log that is kept in a readily accessible location.
- (a) [60.486(h)(1)]
Design criterion required in 40 CFR 60.482-2(d)(5) and explanation of the design criterion; and

(b) [60.486(h)(2)]
Any changes to this criterion and the reasons for the changes.

vii. [60.486(j)]
Information and data used to demonstrate that a piece of equipment is not in VOC service shall be recorded in a log that is kept in a readily accessible location.

viii. [60.486(k)]
The provisions of 40 CFR Part 60.7(b) and (d) do not apply to affected facilities subject to 40 CFR Part 60, Subpart VV.

5. OAC REQUIREMENTS

- a. OAC rule 3745-17-07(B)(1), 17-08(B)(3) and 31-05(A)(3)
The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the solids storage container loading process associated with this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- i. the color of the emissions;
 - ii. whether the emissions are representative of normal operations;
 - iii. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - iv. the total duration of any abnormal visible emission incident; and
 - v. any corrective actions taken to eliminate the abnormal visible emissions.
- b. OAC rule 3745-21-09(M)(2) and 31-05(A)(3)
The permittee shall comply with the control requirements of these applicable rules by maintaining compliance with the monitoring and record keeping requirements of 40 CFR Part 61, Subpart FF.
- c. OAC rule 3745-21-09(T)
The permittee shall comply with the VOC leak detection and repair program requirements of OAC rule 3745-21-09(T) by maintaining compliance with the monitoring and record keeping requirements of 40 CFR Part 63, Subpart CC for all VOC process equipment leaks.

IV. Reporting Requirements

1. [61.357(d)] REPORTING REQUIREMENTS - 40 CFR Part 61, Subpart FF
The permittee shall submit to the Administrator the following reports:

- a. [61.357(d)(1)]
Within 90 days after January 7, 1993, unless a waiver of compliance under 40 CFR 61.11, a certification that the equipment necessary to comply with these standards has been installed and that the required initial inspections or tests have been carried out in accordance with 40 CFR Part 61, Subpart FF. If a waiver of compliance is granted under 40 CFR Part 61.11, the certification of equipment necessary to comply with these standards shall be submitted by the date the waiver of compliance expires.

- b. [61.357(d)(6)]
Beginning 3 months after the date that the equipment necessary to comply with these standards has been certified in accordance with 61.357(d)(1) as described in paragraph a. above, the permittee shall submit quarterly to the Administrator a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR Part 61, Subpart FF.

- c. [61.357(d)(7)]
Beginning 3 months after the date that the equipment necessary to comply with these standards has been certified in accordance with paragraph 61.357(d)(1) as described in paragraph a. above, the permittee shall submit a report quarterly to the Administrator that includes:
 - i. [61.357(d)(7)(iv)]
For a control device monitored in accordance with 61.354(c) [see section A.III.], each period of operation monitored during which any of the following conditions occur, as applicable to the control device:
 - (a) [61.357(d)(7)(iv)(C)]
Each 3-hour period of operation during which the average temperature of the gas stream in the combustion zone of a boiler or process heater having a design input if less than 44 MW, measured by the temperature monitoring device, is more than 28°C below the design combustion zone temperature.
 - (b) [61.357(d)(7)(iv)(E)]
Each 3-hour period of operation during which the temperature of the condenser exhaust vent stream is more than 6°C (11°F) above the design average exhaust vent stream temperature, or the temperature of the coolant fluid exiting the condenser is more than 6°C (11°F) above the design average coolant fluid temperature at the condenser outlet.
 - (c) [61.357(d)(7)(iv)(G)]
Each occurrence which is a change in the location at which the vent stream is introduced into the flame zone of a boiler or process heater as required by 40 CFR 61.349(a)(2)(i)(C) [see section A.II.].

- (d) [61.357(d)(7)(iv)(I)]
Each occurrence when the carbon in a carbon adsorber system that is not regenerated directly on site in the control device is not replaced at the predetermined interval specified in 40 CFR 61.354(c) [see section A.III.].
 - ii. [61.357(d)(7)(v)]
For a cover and closed-vent system monitored in accordance with 40 CFR 61.354(g), the permittee shall submit a report quarterly to the Administrator that identifies any period in which the pressure in the waste management unit is equal to or greater than atmospheric pressure.
 - d. [61.357(d)(8)]
Beginning one year after the date that the equipment necessary to comply with these standards has been certified in accordance with 40 CFR 61.357(d)(1) [see section A.IV.], the permittee shall submit annually to the Administrator a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 [see sections A.II. and A.III.] during which detectable emissions are measured or a problem (such as a broken seal, gap or other problem) that could result in benzene emissions is identified, including information about the repairs or corrective action taken.
- 2. REPORTING REQUIREMENTS - 40 CFR Part 63, Subpart CC
 - a. [63.642] STANDARDS: GENERAL
 - i. [63.642(e)]
Except as otherwise specified in 40 CFR Part 63, Subpart CC, the permittee shall keep copies of all applicable reports and records required by 40 CFR Part 63, Subpart CC for at least 5 years. All applicable records shall be maintained in such a manner that they can be readily accessed within 24 hours. Records may be maintained in hard copy or computer-readable form including, but not limited to, on paper, microfilm, computer, floppy disk, magnetic tape, or microfiche.
 - ii. [63.642(f)]
All reports required under 40 CFR Part 63, Subpart CC shall be sent to the Administrator at the addresses listed in 40 CFR 63.13 of Subpart A. If acceptable to both the Administrator and the permittee of a source, reports may be submitted on electronic media.
 - b. [63.654] REPORTING REQUIREMENTS
 - i. [63.654(a)]
Except as otherwise specified in 40 CFR Part 63, Subpart CC, the permittee subject to the wastewater provisions in 40 CFR 63.647 shall comply with the record keeping and reporting provisions in 40 CFR 61.356 and 61.357 [see sections A.III. and A.IV.] of 40 CFR Part 61, Subpart FF. There are no additional

reporting and record keeping requirements for wastewater under 40 CFR Part 63, Subpart CC.

- ii. [63.654(d)]
The permittee subject to the equipment leaks standards in 40 CFR 63.648 [see section A.II.] shall comply with the applicable record-keeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6) as described below.
 - (a) [63.654(d)(1) and (d)(1)(i)]
40 CFR 60.486 and 60.487 [see sections A.III. and A.IV.] of Subpart VV except as specified in paragraph (d)(1)(i) of this section.
The signature of the permittee (or designate) whose decision it was that a repair could not be effected without a process shutdown is not required to be recorded. Instead, the name of the person whose decision it was that a repair could not be effected without a process shutdown shall be recorded and retained for 2 years.
 - (b) [63.654(d)(2)]
The initial semiannual report required by 40 CFR 60.487(b) [see section A.IV.] of Subpart VV shall be submitted within 150 days of the compliance date specified in 40 CFR Part 63.640(h).

3. [60.487] REPORTING REQUIREMENTS - 40 CFR Part 60, Subpart VV

- a. [60.487(a)]
Each permittee subject to the provisions of 40 CFR Part 60, Subpart VV shall submit semiannual reports to the Administrator beginning six months after the initial start up date.
- b. [60.487(b)]
The initial semiannual report to the Administrator shall include the following information:
 - i. [60.487(b)(1)]
Process unit identification.
 - ii. [60.487(b)(2)]
Number of valves subject to the requirements of 40 CFR 60.482-7 [see section A.III.], excluding those valves designated for no detectable emissions under the provisions of 40 CFR 60.482-7(f) [see section A.III.].
 - iii. [60.487(b)(3)]
Number of pumps subject to the requirements of 40 CFR 60.482-2 [see section A.III.], excluding those pumps designated for no detectable emissions under the provisions of 40 CFR 60.482-2(e) [see section A.III.] and those pumps complying with 40 CFR 60.482-2(f) [see section A.III.].

- c. [60.487(c)]
All semiannual reports to the Administrator shall include the following information, summarized from the information in 40 CFR 60.486 [see section A.III.]:
- i. [60.487(c)(1)]
Process unit identification.
 - ii. [60.487(c)(2)]
For each month during the semiannual reporting period:
 - (a) Number of valves for which leaks were detected as described in 40 CFR 60.482-7(b) [see section A.III.];
 - (b) Number of valves for which leaks were not repaired as required in 40 CFR 60.482-7(d)(1) [see section A.III.];
 - (c) Number of pumps for which leaks were detected as described in 40 CFR 60.482-2(b) and (d)(6)(i) [see section A.III.];
 - (d) Number of pumps for which leaks were not repaired as required in 40 CFR 60.482-2(c)(1) [see section A.III.]; and
 - (e) The facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible.
 - iii. [60.487(c)(3)]
Dates of process unit shutdowns which occurred within the semiannual reporting period.
 - iv. [60.487(c)(4)]
Revisions to items reported according to 40 CFR 60.487(b) above, if changes have occurred since the initial report or subsequent revisions to the initial report.
- d. [60.487(e)]
The permittee shall report the results of all performance tests in accordance with 40 CFR Part 60.8 of the General Provisions. The provisions of 40 CFR Part 60.8(d) do not apply to affected facilities subject to the provisions of 40 CFR Part 60, Subpart VV except that the permittee must notify the Administrator of the schedule for the initial performance tests at least 30 days before the initial performance tests.
- e. [60.487(f)]
The requirements of 40 CFR 60.487(a) through (c) above, remain in force until and unless EPA, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such State. In that event, affected sources within the State will be relieved of

the obligation to comply with the requirements of 40 CFR 60.487(a) through (c) above, provided that they comply with the requirements established by the State.

4. OAC REPORTING REQUIREMENTS

- a. OAC rule 3745-17-07(B)(1), 17-08(B)(3) and 31-05(A)(3)
The permittee shall submit semiannual written reports which:
 - i. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and
 - ii. describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Toledo Division of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.
- b. OAC rule 3745-21-09(M)(2) and 31-05(A)(3)
The permittee shall comply with the applicable requirements of these by maintaining compliance with the reporting requirements of 40 CFR Part 61, Subpart FF.
- c. OAC rule 3745-21-09(T)
The permittee shall comply with the reporting requirements of OAC rule 3745-21-09(T) by maintaining compliance with the reporting requirements of 40 CFR Part 63, Subpart CC for all VOC process equipment leaks.

V. Testing Requirements

1. TESTING REQUIREMENTS - 40 CFR Part 61, Subpart FF

- a. [61.349(e)] CLOSED VENT SYSTEM AND CONTROL DEVICE
The Administrator may request at any time a permittee to demonstrate that a control device meets the applicable conditions specified in 61.349(a)(2) [see section A.II.] by conducting a performance test using the test methods and procedures as required in 61.355 below
- b. [61.355] TESTING METHODS, PROCEDURES AND COMPLIANCE PROVISIONS
 - i. [61.355(h)]
The permittee shall test equipment for compliance with no detectable emissions as required in 40 CFR Part 61.343 through 61.347 and 61.349 [see sections A.II. and A.III.] in accordance with the following requirements:
 - (a) [61.355(h)(1)]
Monitoring shall comply with method 21 from Appendix A of 40 CFR Part 60.

- (b) [61.355(h)(2)]
The detection instrument shall meet the performance criteria of method 21.
 - (c) [61.355(h)(3)]
The instrument shall be calibrated before use on each day of its use by the procedures specified in method 21.
 - (d) [61.355(h)(4)]
Calibration gases shall be:
 - (i) [61.355(h)(4)(i)]
zero air (less than 10 ppm of hydrocarbon in air); and
 - (ii) [61.355(h)(4)(ii)]
a mixture of methane or n-hexane and air at a concentration of approximately, but less than, 10,000 ppm methane or n-hexane.
 - (e) [61.355(h)(5)]
The background level shall be determined as set forth in method 21.
 - (f) [61.355(h)(6)]
The instrument probe shall be traversed around all potential leak interfaces as close as possible to the interface as described in method 21.
 - (g) [61.355(h)(7)]
The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared to 500 ppm for determining compliance.
- ii. [61.355(i)]
The permittee using a performance test to demonstrate compliance of a control device with either the organic reduction efficiency requirement or the benzene reduction efficiency requirement specified under 40 CFR 61.349(a)(2) shall use the following procedures:
- (a) [61.355(i)(1)]
The test shall be conducted under conditions that exist when the waste management unit vented to the control device is operating at the highest load or capacity level expected to occur. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a test. The permittee shall record all process information necessary to document the operating conditions during the test.

- (b) [61.355(i)(2)]
Sampling sites shall be selected using Method 1 or 1A from Appendix A of 40 CFR Part 60, as appropriate.
- (c) [61.355(i)(3)]
The mass flow rate of either the organics or benzene entering and exiting the control device shall be determined as follows:
- (i) [61.355(i)(3)(i)]
The time period for the test shall not be less than 3 hours during which at least 3 stack gas samples are collected. Samples of the vent stream entering and exiting the control device shall be collected during the same time period. Each sample shall be collected over a 1-hour period (e.g., in a tedlar bag) to represent a time-integrated composite sample.
- (ii) [61.355(i)(3)(ii)]
A run shall consist of a 1-hour period during the test. For each run:
- (A) The reading from each measurement shall be recorded;
- (B) The volume exhausted shall be determined using Method 2, 2A, 2C, or 2D from Appendix A of 40 CFR Part 60, as appropriate;
- (C) The organic concentration or the benzene concentration, as appropriate, in the vent stream entering and exiting the control shall be determined using Method 18 from Appendix A of 40 CFR Part 60.
- (iii) [61.355(i)(3)(iii)]
The mass of organics or benzene entering and exiting the control device during each run shall be calculated as follows:

$$M_{aj} = 10^{-6} K_i V_{aj} \sum_{i=1}^n C_{ai} MW_i$$

$$M_{bj} = 10^{-6} K_i V_{bj} \sum_{i=1}^n C_{bi} MW_i$$

where:

M_{aj} = Mass of organics or benzene in the vent stream entering the control device during run j , kg (lb).

M_{bj} = Mass of organics or benzene in the vent stream exiting the control device during run j , kg (lb).

V_{aj} = Volume of vent stream entering the control device during run j, at standard conditions, cubic meters, cuft.

V_{bj} = Volume of vent stream exiting the control device during run j, at standard conditions, cubic meters, cuft.

C_{ai} = Organic concentration of compound i or the benzene concentration measured in the vent stream entering the control device as determined by Method 18, ppm by volume on a dry basis.

C_{bi} = Organic concentration of compound i or the benzene concentration measured in the vent stream exiting the control device as determined by Method 18, ppm by volume on a dry basis.

M_{Wi} = Molecular weight of organic compound i in the vent stream, or the molecular weight of benzene, kg/kg-mol (lb/lb-mole).

n = Number of organic compounds in the vent stream; if benzene reduction efficiency is being demonstrated, then n=1.

K = Conversion factor for molar volume at standard conditions (293 K and 760 mm Hg (527 R and 14.7 psia)) = 0.0416 kg-mol/m³/(0.00118 lb-mol/ft³)

10⁻⁶ = Conversion factor for ppmv.

(iv) [61.355(i)(3)(iv)]

The mass flow rate of organics or benzene entering and exiting the control device shall be calculated as follows:

$$E_a = T^{-1} \sum_{j=1}^n M_{aj}$$

$$E_b = T^{-1} \sum_{j=1}^n M_{bj}$$

where:

E_a = Mass flow rate of organics or benzene entering the control device, kg/hr (lb/hr).

E_b = Mass flow rate of organics or benzene exiting the control device, kg/hr (lb/hr).

M_{aj} = Mass of organics or benzene in the vent stream entering the control device during run j, kg (lb).

M_{bj} = Mass of organics or benzene in the vent stream exiting the control device during run j, kg (lb).

T = Total time of all runs, hr.

n = Number of runs.

(d) [61.355(i)(4)]

The organic reduction efficiency or the benzene reduction efficiency for the control device shall be calculated as follows:

$$R = 100 (E_a - E_b) \div E_a$$

where:

R = Total organic reduction of efficiency or benzene reduction efficiency for the control device, percent.

E_b = Mass flow rate of organics or benzene entering the control device, kg/hr (lb/hr).

E_a = Mass flow rate of organic or benzene emitted from the control device, kg/hr (lb/hr).

2. [60.485] TEST METHODS AND PROCEDURES - 40 CFR Part 60, Subpart VV

a. [60.485(a)]

In conducting the performance tests required in 40 CFR 60.8, the permittee shall use as reference methods and procedures the test methods in Appendix A of 40 CFR 60 or other methods and procedures as specified in 40 CFR Part 60, Subpart VV, except as provided in 40 CFR 60.8(b).

b. [60.485(b)]

The permittee shall determine compliance with the standards in 40 CFR 60.482 [see section A.III.] as follows:

i. [60.485(b)(1)]

Method 21 shall be used to determine the presence of leaking sources. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21. The following calibration gases shall be used:

(a) Zero air (less than 10 ppm of hydrocarbon in air); and

(b) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane.

c. [60.485(c)]

The permittee shall determine compliance with the no detectable emission standards in 40 CFR 60.482-2(e), 60.482-3(i), 60.482-4, 60.482-7(f) and 60.482-10(e) [see section A.III.] as follows:

i. [60.485(c)(1)]

The requirements of 40 CFR 60.485(b) [see section A.V.] shall apply.

ii. [60.485(c)(2)]

Method 21 shall be used to determine the background level. All potential leak interfaces shall be traversed as close to the interface as possible. The arithmetic difference between the maximum concentration indicates by the instrument and the background level is compared with 500 ppm for determining compliance.

- d. [60.485(d)]

The permittee shall test each piece of equipment unless they demonstrate that a process unit is not in VOC series, i.e., that the VOC content would never be reasonably expected to exceed 10 percent by weight. For purposes of this demonstration, the following methods and procedures shall be used:

 - i. [60.485(d)(1)]

Procedures that conform to the general methods in ASTM E-260, E-168, E-169 (incorporated by reference; see 40 CFR 60.17) shall be used to determine the percent VOC content in the process fluid that is contained in or contacts a piece of equipment.
 - ii. [60.485(d)(2)]

Organic compounds that are considered by the Administrator to have negligible photochemical reactivity may be excluded from the total quantity of organic compounds in determining the VOC content of the process fluid.
 - iii. [60.485(d)(3)]

Engineering judgment may be used to estimate the VOC content, if a piece of equipment had not been shown previously to be in service. If the Administrator disagrees with the judgment, 40 CFR 60.485(d)(1) and (2) [see paragraphs d.i. and d.ii. above] shall be used to resolve the disagreement.

- e. [60.485(e)]

The permittee shall demonstrate that equipment is in light liquid service by showing that all the following conditions apply:

 - i. [60.485(e)(1)]

The vapor pressure of one or more of the components is greater than 0.3 kPa at 20°C. Standard reference texts or ASTM D-2879 (incorporated by reference; see 40 CFR 60.17) shall be used to determine the vapor pressures.
 - ii. [60.485(e)(2)]

The total concentration of the pure components having a vapor pressure greater than 0.3 kPa at 20°C is equal to or greater than 20 percent by weight.
 - iii. [60.485(e)(3)]

The fluid is a liquid at operating conditions.

- f. [60.485(f)]
Samples used in conjunction with 40 CFR 60.485(d) and (e) [paragraphs d. and e. above] shall be representative of the process fluid that is contained in or contacts the equipment or the gas being combusted in the flare.

3. **OAC REQUIREMENTS**

Compliance with the allowable emission limitations in this permit shall be determined according to the following methods:

- a. Emission Limitation:

20% opacity as a 3-minute average.

Applicable Compliance Method:

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

- b. Emission Limitation for the Storage Container:

0.04 pound of PE per hour

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(10).

- c. Emission Limitation for the Storage Container:

0.16 ton PE per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.04 pound of PE per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

- d. Emission Limitation:

0.35 pound of VOC per hour

Applicable Compliance Method:

Compliance shall be demonstrated through engineering calculations using the latest version of TANKS and U.S. EPA's WATER software for the tanks and water clarifier, with 98% control on the carbon adsorber. If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 25 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-21-10.

e. Emission Limitation:

1.53 tons of VOC per year

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.35 pound of VOC per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. **Additional Terms and Conditions**

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None