



State of Ohio Environmental Protection Agency

Street Address:

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

04/14/03

CERTIFIED MAIL

RE: Draft Title V Chapter 3745-77 permit

06-84-02-0001
Chevron Phillips Chemical Co LP
Haila J. Buskirk
P.O. Box 1000
Route Seven South
Marietta, OH 45750

Dear Haila J. Buskirk:

You are hereby notified that the Ohio Environmental Protection Agency has prepared the enclosed draft of the Title V permit for the facility referenced above. The purpose of this draft is to solicit public comments. A public notice concerning the draft will appear in the Ohio EPA Weekly Review and the major newspaper in the county where the facility is located. Comments and/or a request for a public hearing from the public and any affected parties will be accepted by Southeast District Office within 30 days of the date of publication in the newspaper. You will be notified in writing if a public hearing is scheduled.

A decision on processing the Title V permit will be made after consideration of written public comments and oral testimony (if a public hearing is conducted). After the comment period, you will be provided with a Preliminary Proposed Title V permit and an opportunity to comment prior to the Proposed Title V permit submittal to USEPA.

If you have any questions or comments concerning this draft Title V permit, please contact Southeast District Office.

Very truly yours,

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

cc: USEPA (electronically submitted)
File, DAPC PMU
Southeast District Office
Pennsylvania
West Virginia



State of Ohio Environmental Protection Agency

DRAFT TITLE V PERMIT

Issue Date: 04/14/03	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: 06-84-02-0001 to:
 Chevron Phillips Chemical Co LP
 P.O. Box 1000
 Route Seven South
 Marietta, OH 45750

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

P001 (Process Lines 6-13) Process Lines 6-13	P004 (Product Handling) Product Handling	T013 (Tank No. 502) Tank No. 502
P002 (Emergency Diesel Generator) Emergency Diesel Generator	T001 (Tank No. 530) Tank No. 530	T014 (Tank No. 501) Tank No. 501
P003 (Process Line 14) Process Line 14	T002 (Tank No. 531) Tank No. 531	

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 3745-77-08(E) 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:

Southeast District Office
 2195 Front Street
 Logan, OH 43138
 (740) 385-8501

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, 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. 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))
 - ii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) with respect to emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**
 - (a) Written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations ; (ii) the probable cause of such deviations; and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Part III of this Title V permit, the written 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. 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. These written reports shall satisfy the

requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations. See B.6 below if no deviations occurred during the quarter.

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

- (b) 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 deviation reporting requirements for this Title V permit, written reports that identify each malfunction that occurred during each calendar quarter shall be submitted, at a minimum, quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year, and shall cover the previous calendar quarters.

In identifying each deviation caused by a malfunction, the permittee shall specify the applicable requirement 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. Also, if a deviation caused by a malfunction is identified in a written report submitted pursuant to paragraph (a) above, a separate report is not required for that malfunction pursuant to this paragraph. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing, at a minimum, on a quarterly basis.

Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation, operational restriction, and control device operating parameter limitation shall be reported in the same manner as described above for malfunctions. These written reports for malfunctions (and scheduled maintenance projects, if appropriate) shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations.

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

iii. **For monitoring, record keeping, and reporting requirements:**

Written reports that identify any deviations from the federally enforceable monitoring, record keeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year, for the previous six calendar months. 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. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, record

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

(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))

2. 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 unit(s) 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 OAC rule 3745-15-06, 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).

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

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

(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, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). 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.

(For purposes of clarification, the permittee can refer to Engineering Guide #63 that is available in the STARSHIP software package.)

(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))

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 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.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

None

B. State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

F001 - roadways;
G001 - gasoline and diesel fuel dispensing;
N001 - incinerator;
N004 - thermal parts cleaner;
T010 - tank 201;
T015 - tank 110;
T016 - tank 600;
T017 - tank 205;
T018 - tank 601;
Z005 - sewer trench and sump;
Z006 - transport vessel loading;
Z007 - laboratory;
Z009 - solvent cold cleaners; and
Z011 - wood shop.

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

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Process Lines 6-13 (P001)

Activity Description: Process Lines 6-13

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Polystyrene production lines 6-13 (controlled with condensers and hot oil heaters)	OAC rule 3745-31-05(A)(3) (PTI 06-4863)	<p>Total, point source, volatile organic compound (VOC) emissions shall not exceed 2.12 lbs/hr and 9.1 tons/yr.</p> <p>Total, fugitive, VOC emissions shall not exceed 0.94 lb/hr and 4.1 tons/yr.</p> <p>The following individual toxic pollutant limitations are included in the VOC emissions limitations above:</p> <p>styrene emissions (point source and fugitive) shall not exceed 2.20 lbs/hr and 9.7 tons/yr;</p> <p>toluene emissions (point source and fugitive) shall not exceed 0.49 lb/hr and 2.1 tons/yr;</p> <p>cumene emissions (point source and fugitive) shall not exceed 0.18 lb/hr and 0.8 ton/yr;</p> <p>ethylbenzene emissions (fugitive) shall not exceed 0.002 lb/hr and 0.01 ton/yr; and</p> <p>xylene emissions (fugitive) shall not exceed 0.03 lb/hr and 0.11 ton/yr.</p> <p>Total particulate emissions (PE) shall not exceed 8.89 lbs/hr and 38.9 tons/yr.</p> <p>Total nitrogen oxides (NOx) emissions shall not exceed 7.80 lbs/hr and 34.2 tons/yr.</p>

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
		<p>Total carbon monoxide (CO) emissions shall not exceed 1.02 lbs/hr and 4.5 tons/yr.</p> <p>Total sulfur dioxide (SO₂) emissions shall not exceed 3.37 lbs/hr and 14.8 tons/yr.</p>
	OAC rule 3745-17-07(A)	<p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and OAC rule 3745-21-09(DD).</p> <p>Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.</p> <p>See A.I.2.c below.</p>
	OAC rule 3745-21-09(DD)	
	40 CFR Part 63, Subpart JJJ [63.1316(c)(1)(iii)(A)]	<p>The permittee shall reduce the HAP or TOC emissions in a combustion device to achieve 98 weight percent reduction or to achieve a concentration of 20 parts per million by volume (ppmv) on a dry basis, whichever is less stringent. If the permittee elects to comply with the 20 ppmv standard, the concentration shall include a correction to 3 percent oxygen only when supplemental combustion air is used to combust the emissions. Compliance may be based on either organic HAP or TOC.</p>
		See A.I.2.d below.
	OAC rule 3745-17-11(B)(1)	See A.I.2.a below.
	OAC rule 3745-21-07(G)(2)	See A.I.2.b below.
	OAC rule 3745-21-09(CC)	See A.I.2.a below.

2. Additional Terms and Conditions

- 2.a** The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.b** This emissions unit does not employ, apply, evaporate or dry any photochemically reactive material (PRM), or any substance containing such PRM. Therefore, there are no applicable emission limitations from OAC rule 3745-21-07(G)(2).

2. Additional Terms and Conditions (continued)

2.c A Leak Detection and Repair (LDAR) Program shall be maintained for equipment in this process unit in accordance with sections A.III.2 through A.III.33, A.IV.2, and A.IV.3.

2.d [40 CFR 63.1313(a)]

If applicable, the permittee shall comply with the provisions in:

- (1) Section 63.1314 for storage vessels;
- (2) Section 63.1315, or 63.1316 through 63.1320, as appropriate, for continuous process vents;
- (3) Section 63.1321 for batch process vents;
- (4) Section 63.1328 for heat exchange systems;
- (5) Section 63.1329 for process contact cooling towers;
- (6) Section 63.1330 for wastewater;
- (7) Section 63.1331 for equipment leaks;
- (8) Section 63.1333 for additional test methods and procedures;
- (9) Section 63.1334 for parameter monitoring levels and excursions; and
- (10) Section 63.1335 for general record keeping and reporting requirements.

2.e All emissions from the reaction, stripping, and recovery operations associated with this emissions unit shall be vented to the condensers and hot oil heaters.

II. Operational Restrictions

1. The permittee shall not employ any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day a photochemically reactive material is employed, the permittee shall maintain a record of the type and quantity of such materials employed in this emissions unit.
2. [OAC rule 3745-21-09(DD)(2)(a)]
Leak Detection and Repair (LDAR) Program

The permittee shall maintain a LDAR Program for equipment in the process unit in accordance with the requirements specified in paragraphs (DD)(2)(b) to (DD)(2)(m) of OAC rule 3745-21-09.

III. Monitoring and/or Record Keeping Requirements (continued)

3. [OAC rule 3745-21-09(DD)(2)(b)]

Except as otherwise provided in paragraphs (DD)(2)(c) and (DD)(2)(d) of OAC rule 3745-21-09, equipment shall be monitored for leaks in accordance with the method specified in paragraph (F) of rule 3745-21-10 of the Administrative Code, as follows:

(i) Any pump in light liquid service shall be monitored monthly.

(ii) Any valve in gas/vapor service or in light liquid service shall be monitored monthly, except that quarterly monitoring may be employed anytime after no leaks are detected during two consecutive months. The quarterly monitoring shall begin with the next calendar quarter following the two consecutive months of no detected leaks and shall be conducted in the first month of each calendar quarter. The quarterly monitoring may continue until a leak is detected, at which time monthly monitoring shall be employed again.

(iii) Any of the following equipment shall be monitored within five calendar days after evidence of a leak or potential leak from the equipment by visual, audible, olfactory, or other detection method:

(a) Any pump in heavy liquid service;

(b) Any valve in heavy liquid service;

(c) Any pressure relief device in light liquid service or in heavy liquid service; and

(d) Any flange or other connector.

(iv) Any equipment in which a leak is detected as described in paragraph (DD)(2)(g) of OAC rule 3745-21-09 shall be monitored within five working days after each attempt to repair, unless the owner or operator believes that the equipment was not successfully repaired.

4. [OAC rule 3745-21-09(DD)(2)(c)]

For any valve in gas/vapor service or in light liquid service, an alternative monitoring schedule may be employed in lieu of the monitoring schedule specified in paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09 as follows:

(i) The valve is designated as difficult to monitor and is monitored each calendar year, provided the following conditions are met:

(a) Construction of the process unit commenced prior to May 9, 1986.

(b) The owner or operator of the valve demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than six feet above a support surface.

(c) The owner or operator of the valve has a written plan that requires monitoring of the valve at least once per year.

(ii) The valve is designated as unsafe to monitor and is monitored as frequently as practical during safe to monitor times, provided the following conditions are met:

(a) The owner or operator 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 monitoring on a monthly basis.

(b) The owner or operator of the valve adheres to a written plan that requires monitoring of the valve as frequently as practical during safe to monitor times.

(iii) The valve is subject to an alternative monitoring schedule based on a skip period as specified in paragraph (DD)(12) of OAC rule 3745-21-09.

III. Monitoring and/or Record Keeping Requirements (continued)

5. [OAC rule 3745-21-09(DD)(2)(d)]
Excluded from the monitoring requirements of paragraph (DD)(2)(b) of OAC rule 3745-21-09 are the following equipment:
- (i) Any pump that has no externally actuated shaft penetrating the pump housing and that is designated for no detectable emissions as provided in paragraph (DD)(7) of OAC rule 3745-21-09;
 - (ii) Any pump that is equipped with a dual mechanical seal which has a barrier fluid system and sensor that comply with the requirements specified in paragraph (DD)(8) of OAC rule 3745-21-09;
 - (iii) Any pump that is equipped with a closed vent system capable of capturing and transporting any leakage from the pump seal to control equipment, provided the closed vent system and the control equipment comply with the requirements specified in paragraphs (DD)(9) and (DD)(10) of OAC rule 3745-21-09;
 - (iv) Any valve that has no externally actuated stem penetrating the valve and that is designated for no detectable emissions as provided in paragraph (DD)(7) of OAC rule 3745-21-09; and
 - (v) Any valve that is subject to the alternative monitoring standard for valves based on the percentage of valves leaking as provided in paragraph (DD)(13) of OAC rule 3745-21-09.
6. [OAC rule 3745-21-09(DD)(2)(e)]
Any pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal, unless the pump is equipped with a closed vent system capable of transporting any leakage from the pump seal to control equipment, and the closed vent system and control equipment comply with the requirements specified in paragraphs (DD)(9) and (DD)(10) of OAC rule 3745-21-09.
7. [OAC rule 3745-21-09(DD)(2)(f)]
Any sensor employed pursuant to paragraph (DD)(2)(d)(ii) or (DD)(3)(b) of OAC rule 3745-21-09 shall be checked daily, unless the sensor is equipped with an audible alarm.
8. [OAC rule 3745-21-09(DD)(2)(g)]
A leak is detected:
- (i) When a concentration of ten thousand ppmv or greater is measured from a potential leak interface of any equipment that is monitored for leaks using the method in paragraph (F) of rule 3745-21-10 of the Administrative Code;
 - (ii) When there is an indication of liquids dripping from the seal of a pump in light liquid service; or
 - (iii) When a sensor employed pursuant to paragraph (DD)(2)(d)(ii) or (DD)(3)(b) of OAC rule 3745-21-09 indicates failure of the seal system, the barrier fluid system, or both.
9. [OAC rule 3745-21-09(DD)(2)(h)]
When a leak is detected as described in paragraph (DD)(2)(g) of OAC rule 3745-21-09, the following procedures shall be followed:
- (i) A weatherproof and readily visible identification tag, marked with the equipment identification number, is immediately attached to the leaking equipment.
 - (ii) A record of the leak and any attempt to repair the leak is entered into the leak repair log kept pursuant to paragraph (DD)(2)(k) of OAC rule 3745-21-09.
 - (iii) The identification tag attached to the leaking equipment, other than a valve that is monitored pursuant to paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09, may be removed after the leaking equipment is repaired.
 - (iv) The identification tag attached to a leaking valve that is monitored pursuant to paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09 may be removed after the leaking valve is repaired, monitored for leaks for two consecutive months as specified in paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09, and found to have no detected leaks during those two consecutive months.

III. Monitoring and/or Record Keeping Requirements (continued)

10. [OAC rule 3745-21-09(DD)(2)(i)]
When a leak is detected as described in paragraph (DD)(2)(g) of OAC rule 3745-21-09, the leaking equipment shall be repaired as soon as practicable, but no later than fifteen calendar days after the leak is detected, except for a delay of repair as provided in paragraph (DD)(11) of OAC rule 3745-21-09. Leaking equipment shall be deemed repaired if the maximum concentration measured pursuant to paragraph (DD)(2)(b)(iv) of OAC rule 3745-21-09 is less than ten thousand ppmv.
11. [OAC rule 3745-21-09(DD)(2)(j)]
When a leak is detected as described in paragraph (DD)(2)(g) of OAC rule 3745-21-09, a first attempt at repair shall be made no later than five calendar days after the leak is detected; and the first attempts at repair shall include, but are not limited to, the following best practices where practicable:
- (i) Tightening of bonnet bolts;
 - (ii) Replacement of bonnet bolts;
 - (iii) Tightening of packing gland nuts; and
 - (iv) Injection of lubricant into lubricated packing.
12. [OAC rule 3745-21-09(DD)(2)(k)]
When a leak is detected as described in paragraph (DD)(2)(g) of OAC rule 3745-21-09, the following information shall be recorded in a leak repair log:
- (i) The identification number of the leaking equipment and, for leaks based on monitoring, the identification numbers of the leak detection instrument and its operator;
 - (ii) The basis for the detection of the leak; for example, monitoring, visual inspection, or sensor;
 - (iii) The date on which the leak was detected and the date of each attempt to repair the leaking equipment;
 - (iv) The methods of repair applied in each attempt to repair the leaking equipment;
 - (v) One of the following entries within five working days after each attempt to repair the leaking equipment:
 - (a) "Not monitored," denoting the leaking equipment was presumed to still be leaking and it was not monitored; or
 - (b) If the leaking equipment was monitored with a leak detection instrument, the maximum concentration that was measured as follows:
 - (i) The actual reading in ppmv; or
 - (ii) "Below 10,000," denoting less than ten thousand ppmv; or
 - (iii) "Above 10,000," denoting not less than ten thousand ppmv;
 - (vi) If the leak is not repaired within fifteen calendar days after the date on which it was detected:
 - (a) "Repair delayed" and the reason for the delay;
 - (b) If repair is being delayed until the next process unit shutdown due to technical infeasibility of repair, the signature of the owner or operator whose decision it was that repair is technically infeasible without a process unit shutdown;
 - (c) The expected date of successful repair of the leak;
 - (d) The dates of process unit shutdowns that occur while the leaking equipment is unrepaired; and
 - (vii) The date on which the leak was successfully repaired.

III. Monitoring and/or Record Keeping Requirements (continued)

13. [OAC rule 3745-21-09(DD)(2)(I)]
The leak repair log shall be retained by the owner or operator of the process unit in a readily accessible location for a minimum of two years after the date on which the record was made.
14. [OAC rule 3745-21-09(DD)(3)]
Compressors.
- (a) Except as otherwise provided in paragraphs (DD)(3)(c) to (DD)(3)(e) of OAC rule 3745-21-09, any compressor in the process unit shall comply with the requirements specified in paragraph (DD)(3)(b) of OAC rule 3745-21-09.
- (b) The compressor shall be equipped with a seal that has a barrier fluid system and sensor which comply with the requirements specified in paragraph (DD)(8) of OAC rule 3745-21-09.
- (c) Excluded from the requirements of paragraph (DD)(3)(b) of OAC rule 3745-21-09 is any compressor that is designated for no detectable emissions as provided in paragraph (DD)(7) of OAC rule 3745-21-09.
- (d) Excluded from the requirements of paragraph (DD)(3)(b) of OAC rule 3745-21-09 is any compressor that is equipped with a closed vent system capable of capturing and transporting any leakage from the compressor seal to control equipment, provided the closed vent system and the control equipment comply with the requirements specified in paragraphs (DD)(9) and (DD)(10) of OAC rule 3745-21-09.
- (e) Excluded from the requirements of paragraph (DD)(3)(b) of OAC rule 3745-21-09 is any reciprocating compressor that meets the following conditions:
- (i) The compressor was installed prior to May 9, 1986; and
- (ii) The owner or operator of the compressor demonstrates to the satisfaction of the director that recasting the compressor distance piece or replacing the compressor are the only options available to bring the compressor into compliance with the requirements of paragraph (DD)(3)(b) of OAC rule 3745-21-09.
15. [OAC rule 3745-21-09(DD)(4)]
Pressure relief devices in gas/vapor service.
- (a) Except as otherwise provided in paragraph (DD)(4)(e) of OAC rule 3745-21-09, any pressure relief device in gas/vapor service in the process unit shall comply with the requirements specified in paragraphs (DD)(4)(b) to (DD)(4)(d) of OAC rule 3745-21-09.
- (b) Except during pressure releases, the pressure relief device shall be operated with no detectable emissions, as indicated by an instrument reading of less than five hundred ppmv above background, as measured by the method specified in paragraph (F) of rule 3745-21-10 of the Administrative Code.
- (c) No later than five calendar days after a pressure release, the pressure relief device shall be tested to confirm the condition of no detectable emissions in accordance with the method specified in paragraph (F) of rule 3745-21-10 of the Administrative Code.
- (d) After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions as soon as practicable, but no later than five calendar days after the pressure release, except for a delay of repair as provided in paragraph (DD)(11) of OAC rule 3745-21-09.
- (e) Excluded from the requirements of paragraphs (DD)(4)(b) to (DD)(4)(d) of OAC rule 3745-21-09 is any pressure relief device that is equipped with a closed vent system capable of capturing and transporting leakage through the pressure relief device to control equipment, provided the closed vent system and control equipment comply with the requirements specified in paragraphs (DD)(9) and (DD)(10) of OAC rule 3745-21-09.

III. Monitoring and/or Record Keeping Requirements (continued)

- 16.** [OAC rule 3745-21-09(DD)(5)]
Sampling connection system.

(a) Except as otherwise provided in paragraph (DD)(5)(c) of OAC rule 3745-21-09, any sampling connection system in the process unit shall comply with the requirements specified in paragraph (DD)(5)(b) of OAC rule 3745-21-09.

(b) The sampling connection system shall be equipped with a closed purge system or a closed vent system that meets one of the following requirements:

(i) The purged process fluid is returned directly to the process line with zero VOC emissions to the ambient air;

(ii) The purged process fluid is collected and recycled with zero VOC emissions to the ambient air; or

(iii) The closed purge system or closed vent system is designed and operated to capture and transport all the purged process fluid to control equipment that meet the requirements specified in paragraph (DD)(10) of this rule.

(c) Excluded from the requirements of paragraph (DD)(5)(b) of OAC rule 3745-21-09 is any sampling connection system that is an in-situ sampling system.

- 17.** [OAC rule 3745-21-09(DD)(6)]
Open-ended valves or lines.

(a) Any open-ended valve or line in the process unit shall be equipped with a cap, blind flange, plug, or second valve and shall comply with the requirements specified in paragraphs (DD)(6)(b) to (DD)(6)(d) of OAC rule 3745-21-09.

(b) Except during operations requiring the flow of process fluid through the open-ended valve or line, the cap, blind flange, plug, or second valve shall seal the open end of the open-ended valve or line.

(c) If equipped with a second valve, the open-ended valve or line shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

(d) If a double block and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves, but shall comply with paragraph (DD)(6)(b) of OAC rule 3745-21-09 at all other times.

- 18.** [OAC rule 3745-21-09(DD)(7)]
Equipment designated for no detectable emissions.

(a) Any equipment (pump, valve, or compressor) designated for no detectable emissions pursuant to paragraph (DD)(2)(d)(i), (DD)(2)(d)(iv) or (DD)(3)(c) of OAC rule 3745-21-09 shall comply with the requirements specified in paragraphs (DD)(7)(b) to (DD)(7)(d) of OAC rule 3745-21-09.

(b) The equipment shall be operated with no detectable emissions as indicated by an instrument reading of less than five hundred ppmv above background as measured by paragraph (F) of rule 3745-21-10 of the Administrative Code.

(c) The equipment shall be tested for compliance with paragraph (DD)(7)(b) of OAC rule 3745-21-09 initially upon designation and annually.

(d) The designation of the equipment shall be signed by the owner or operator of the equipment in the log kept pursuant to paragraph (DD)(14)(b) of OAC rule 3745-21-09.

III. Monitoring and/or Record Keeping Requirements (continued)

19. [OAC rule 3745-21-09(DD)(8)]

Barrier fluid systems and sensors for pumps and compressors.

(a) When a pump or compressor is equipped with a seal that has a barrier fluid system and sensor which are employed to meet the requirements of paragraph (DD)(2)(d)(ii) or (DD)(3)(a) of OAC rule 3745-21-09, the requirements of paragraphs (DD)(8)(b) to (DD)(8)(d) of OAC rule 3745-21-09 shall be met.

(b) The barrier fluid system shall meet one of the following conditions:

(i) The barrier fluid system is operated with a barrier fluid at a pressure that is at all times greater than the stuffing box pressure of the pump or compressor.

(ii) The barrier fluid system is equipped with a barrier fluid degassing reservoir that is connected by a closed vent system to control equipment and the closed vent system and control equipment comply with the requirements specified in paragraphs (DD)(9) and (DD)(10) of OAC rule 3745-21-09.

(iii) The barrier fluid system is equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the ambient air.

(c) The barrier fluid system shall be in heavy liquid service or shall not be in VOC service.

(d) The barrier fluid system shall be equipped with a sensor that will detect failure of the seal system, the barrier fluid system, or both based on criteria determined by the owner or operator from design considerations and operating experience.

20. [OAC rule 3745-21-09(DD)(9)]

Closed vent systems.

(a) Any closed vent system that is used to comply with the requirements of paragraph (DD)(2)(d)(iii), (DD)(3)(d), (DD)(4)(e), or (DD)(8)(b)(ii) of OAC rule 3745-21-09 shall comply with the requirements specified in paragraphs (DD)(9)(b) to (DD)(9)(d) of OAC rule 3745-21-09.

(b) The closed vent system shall be designed and operated with no detectable emissions, as indicated by an instrument reading of less than five hundred ppmv above background, as measured by the method specified in paragraph (F) of rule 3745-21-10 of the Administrative Code.

(c) The closed vent system shall be tested for compliance with paragraph (DD)(9)(b) of OAC rule 3745-21-09 initially and annually.

(d) The closed vent system shall be operated at all times when emissions may be vented to it.

21. [OAC rule 3745-21-09(DD)(10)]

Control equipment.

(a) Any control equipment that is used to comply with the requirements of paragraph (DD)(2)(d)(iii), (DD)(3)(d), (DD)(4)(e), (DD)(5)(b)(iii), (DD)(8)(b)(ii), or (DD)(11)(d)(ii) of OAC rule 3745-21-09 shall comply with the requirements specified in paragraphs (DD)(10)(b) to (DD)(10)(f) of OAC rule 3745-21-09.

(b) If the control equipment is a vapor recovery system, it shall be designed and operated to recover VOC emissions vented to it with an efficiency of at least ninety-five per cent by weight.

(c) If the control equipment is an enclosed combustion device, it shall be designed and operated to reduce the VOC emissions vented to it with an efficiency of at least ninety-five per cent by weight, or to provide a minimum residence time of 0.75 second at a minimum temperature of fifteen hundred degrees Fahrenheit.

III. Monitoring and/or Record Keeping Requirements (continued)

(d) If the control equipment is a flare, it shall meet the following requirements:

(i) The flare shall be designed for and operated with no visible emissions as determined by "Method 22, 40 CFR, Part 60, Appendix A," except for periods not to exceed a total of five minutes during any one hundred twenty consecutive minutes.

(ii) The flare shall be operated with either an electric arc ignition system or a pilot flame. If a pilot flame is employed, the flame shall be present at all times and shall be monitored with a thermocouple or any other equivalent device to detect the presence of the pilot flame. If an electric arc ignition system is employed, the arcing shall pulse continually and shall be monitored to detect any failure.

(iii) The flare shall be steam-assisted, air-assisted or nonassisted.

(iv) The net heating value of the gas being combusted in the flare, as determined by the method specified in paragraph (P)(2) of rule 3745-21-10 of the Administrative Code, shall be three hundred Btu/scf or greater if the flare is steam-assisted or air-assisted, or shall be two hundred Btu/scf or greater if the flare is nonassisted.

(v) Except as provided in paragraph (DD)(10)(d)(vi) of OAC rule 3745-21-09, the flare shall be designed and operated with an actual exit velocity, as determined by the method specified in paragraph (P)(3) of rule 3745-21-10 of the Administrative Code, less than sixty feet per second if the flare is steam-assisted or nonassisted, or less than the maximum permitted velocity, as determined in paragraph (P)(4) of rule 3745-21-10 of the Administrative Code, if the flare is air-assisted.

(vi) Excluded from the requirements of paragraph (DD)(10)(d)(v) of OAC rule 3745-21-09 is any steam-assisted or nonassisted flare that meets both of the following requirements:

(a) The net heating value of the gas being combusted in the flare, as determined by the method specified in paragraph (P)(2) of rule 3745-21-10 of the Administrative Code, shall be greater than one thousand Btu/scf.

(b) The flare shall be designed and operated with an actual exit velocity, as determined by the method specified in paragraph (P)(3) of rule 3745-21-10 of the Administrative Code, less than four hundred feet per second.

(e) The owner or operator of the control equipment shall monitor the control equipment to ensure that it is operated and maintained in conformance with its design.

(f) The control equipment shall be operated at all times when emissions may be vented to it.

III. Monitoring and/or Record Keeping Requirements (continued)

22. [OAC rule 3745-21-09(DD)(11)]
Delay of repair.

(a) A delay of repair that is employed pursuant to paragraph (DD)(2)(i) or (DD)(4)(d) of OAC rule 3745-21-09 shall be allowed only as provided in paragraphs (DD)(11)(b) to (DD)(11)(f) of OAC rule 3745-21-09.

(b) A delay of repair shall be allowed if the repair is technically infeasible without a process unit shutdown. However, the repair shall occur before the end of the next process unit shutdown.

(c) A delay of repair shall be allowed for a piece of equipment that is isolated from the process and that does not remain in VOC service (for example, isolated from the process and properly purged).

(d) A delay of repair for a valve shall be allowed if:

(i) The owner or operator of the valve demonstrates that the emission of purged material resulting from immediate repair is greater than the emission likely to result from delay of repair; and

(ii) When repair procedures are effected, the purged material is collected and destroyed or recovered in control equipment that meets the requirements specified in paragraph (DD)(10) of OAC rule 3745-21-09.

(e) A delay of repair for a pump shall be allowed if:

(i) The repair requires the use of a dual mechanical seal system and associated barrier fluid system; and

(ii) The repair is completed as soon as practicable, but no later than six months after the leak was detected.

(f) A delay of repair beyond a process unit shutdown shall be allowed for a valve if a 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. A delay of repair beyond the next process unit shutdown shall not be allowed for that valve unless the next process unit shutdown occurs sooner than six months after the first process unit shutdown.

23. [OAC rule 3745-21-09(DD)(12)]
Alternative monitoring schedule for valves based on a skip period.

(a) Any owner or operator of a process unit may elect to implement an alternative monitoring schedule in lieu of the monitoring requirements specified in paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09, as provided in paragraph (DD)(2)(c)(iii) of OAC rule 3745-21-09. The alternative monitoring schedule shall be based on skipping quarterly monitoring periods provided the percentage of valves leaking is no more than 2.0. Any owner or operator who elects to implement an alternative monitoring schedule shall comply with the requirements specified in paragraphs (DD)(12)(b) to (DD)(12)(h) of OAC rule 3745-21-09.

(b) The owner or operator must notify the director prior to implementing this alternative monitoring schedule. Such notification must identify which valves will be subject to this alternative monitoring schedule and which work practice within paragraph (DD)(12)(e) of OAC rule 3745-21-09 will be implemented. Any valve in vacuum service, in heavy liquid service, or not in VOC service, shall be excluded from this alternative monitoring schedule.

(c) Any valve subject to this alternative monitoring schedule shall comply initially with the monitoring requirements specified in paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09.

(d) Any valve subject to this alternative monitoring schedule shall continue to be subject to the requirements specified in paragraphs (DD)(2)(g) to (DD)(2)(m) of OAC rule 3745-21-09.

III. Monitoring and/or Record Keeping Requirements (continued)

- (e) One of the following two alternative work practices for skipping monitoring periods may be implemented:
- (i) After two consecutive quarterly leak detection periods with the percentage of valves leaking equal to or less than 2.0, a monitoring program may begin in which the first quarter of every two consecutive quarterly leak detection periods is skipped.
- (ii) After five consecutive quarterly leak detection periods with the percentage of valves leaking equal to or less than 2.0, a monitoring program may begin in which the first three quarters of every four consecutive quarterly periods is skipped.
- (f) If the percentage of valves leaking is greater than 2.0, the owner or operator shall comply with the monitoring requirements as specified in paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09, but may again elect to use this alternative monitoring schedule.
- (g) The percentage of valves leaking shall be determined for the valves subject to this alternative monitoring schedule as the sum of the number of those valves found leaking during any portion of the current monitoring period and the number of those valves found leaking during a previous monitoring period for which repair has been delayed during the current monitoring period, divided by the total number of valves, and multiplied by one hundred.
- (h) The following information pertaining to valves subject to this alternative monitoring schedule shall be recorded in a log that is kept in a readily accessible location:
- (i) A schedule of monitoring; and
- (ii) The percentage of valves leaking during each monitoring period.

24. [OAC rule 3745-21-09(DD)(13)]

Alternative monitoring standard for valves based on the allowable percentage of valves leaking.

- (a) Any owner or operator of a process unit may elect to implement an alternative monitoring standard in lieu of the monitoring requirements specified in paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09, as provided in paragraph (DD)(2)(d)(v) of OAC rule 3745-21-09. The alternative monitoring standard shall be based on maintaining the percentage of valves leaking at 2.0 or less. Any owner or operator who elects to implement an alternative monitoring standard shall comply with the requirements specified in paragraphs (DD)(13)(b) to (DD)(13)(g) of OAC rule 3745-21-09.
- (b) The owner or operator must notify the director prior to implementing this alternative monitoring standard.
- (c) All valves in gas/vapor service or in light liquid service in the process unit shall be subject to this alternative monitoring standard, except for those valves which are designated as unsafe to monitor as provided in paragraph (DD)(2)(c)(ii) of OAC rule 3745-21-09, those valves not in VOC service, and those valves in vacuum service.
- (d) The percentage of valves leaking, as determined in accordance with paragraph (DD)(13)(f) of OAC rule 3745-21-09, shall not exceed 2.0. If the percentage of valves leaking is greater than 2.0, the owner or operator shall comply with the monitoring requirements as specified in paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09, but may again elect to use this alternative monitoring standard.

III. Monitoring and/or Record Keeping Requirements (continued)

(e) All valves subject to this alternative monitoring standard shall be tested for compliance with paragraph (DD)(13)(d) of OAC rule 3745-21-09 initially upon implementation and annually.

(f) A compliance test shall be conducted in the following manner:

(i) All valves subject to this alternative monitoring standard shall be monitored for leaks within a one-week period by the method specified in paragraph (F) of rule 3745-21-10 of the Administrative Code.

(ii) If an instrument reading of ten thousand ppmv or greater is measured, a leak is detected.

(iii) The percentage of valves leaking shall be determined as the number of valves for which a leak is detected, divided by the number of valves monitored, and multiplied by one hundred.

(g) When a leak is detected as described in paragraph (DD)(13)(f)(ii) of OAC rule 3745-21-09, the leaking valve shall be repaired in accordance with paragraphs (DD)(2)(h) and (DD)(2)(i) of OAC rule 3745-21-09.

25. [OAC rule 3745-21-09(DD)(14)(a)]
LDAR Program Record Keeping

Each owner or operator of a process unit as described in paragraph (DD)(1) of OAC rule 3745-21-09 shall comply with the record keeping requirements of paragraphs (DD)(14)(b) to (DD)(14)(g) of OAC rule 3745-21-09. An owner or operator of more than one process unit may use one record keeping system to comply with the record keeping requirements, provided the system identifies each record by each process unit.

26. [OAC rule 3745-21-09(DD)(14)(b)]

The following information shall be recorded in a log that is kept in a readily accessible location:

(i) A list of identification numbers for equipment subject to the requirements of paragraphs (DD)(2) to (DD)(10) of OAC rule 3745-21-09;

(ii) A list of identification numbers for equipment designated for no detectable emissions as provided in paragraph (DD)(7) of OAC rule 3745-21-09, and a signature of the owner or operator authorizing such designation;

(iii) A list of identification numbers for pressure relief devices subject to paragraph (DD)(4) of OAC rule 3745-21-09;

(iv) A list of identification numbers for closed vent systems subject to paragraph (DD)(9) of OAC rule 3745-21-09; and

(v) For compliance tests required under paragraphs (DD)(4)(c), (DD)(7)(c), and (DD)(9)(c) of OAC rule 3745-21-09:

(a) The date of each compliance test;

(b) The background level measured during each compliance test; and

(c) The maximum instrument reading measured at the equipment during each compliance test.

III. Monitoring and/or Record Keeping Requirements (continued)

- 27.** [OAC rule 3745-21-09(DD)(14)(c)]
The following information pertaining to valves subject to an alternative monitoring schedule, as provided in paragraph (DD)(2)(c) of OAC rule 3745-21-09, shall be recorded in a log that is kept in a readily accessible location:
- (i) A list of identification numbers for valves 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;
 - (ii) A list of identification numbers for valves designated as difficult to monitor, an explanation for each valve stating why the valve is difficult to monitor, and the schedule for monitoring each valve; and
 - (iii) A list of identification numbers for valves subject to the alternative monitoring schedule based on a skip period, a schedule for monitoring, and the percentage of valves leaking during each monitoring period.
- 28.** [OAC rule 3745-21-09(DD)(14)(d)]
The following information pertaining to closed vent systems and control equipment described in paragraphs (DD)(9) and (DD)(10) of OAC rule 3745-21-09 shall be recorded and kept in a readily accessible location:
- (i) Detailed schematics, design specifications, and piping and instrumentation diagrams;
 - (ii) The dates and descriptions of any changes in the design specifications;
 - (iii) A description of the parameter or parameters monitored, as required in paragraph (DD)(10)(d) of OAC rule 3745-21-09, to ensure that the control equipment is operated and maintained in conformance with its design, and an explanation of the reason for selecting such parameter or parameters;
 - (iv) Periods when the closed vent systems and control equipment are not operated as designed, including periods when a flare pilot light does not have a flame; and
 - (v) Dates of startups and shutdowns of the closed vent systems and control equipment.
- 29.** [OAC rule 3745-21-09(DD)(14)(e)]
The following information pertaining to barrier fluid systems and sensors described in paragraph (DD)(8) of OAC rule 3745-21-09 shall be recorded in a log that is kept in a readily accessible location:
- (i) A list of identification numbers of pumps and compressors equipped with such barrier fluid systems and sensors;
 - (ii) The criteria that indicate failure of the seal system, the barrier fluid system, or both, as required in paragraph (DD)(8)(d) of OAC rule 3745-21-09 and an explanation of the criteria; and
 - (iii) Any changes to such criteria and the reasons for the changes.
- 30.** [OAC rule 3745-21-09(DD)(14)(f)]
The following information for use in determining an exemption for the process unit as provided in paragraph (DD)(17)(a) of OAC rule 3745-21-09 shall be recorded in a log that is kept in a readily accessible location:
- (i) An analysis demonstrating the design capacity of the process unit;
 - (ii) A statement listing the feed and raw materials and products from the process unit and an analysis demonstrating whether these chemicals are heavy liquids or beverage alcohols; or
 - (iii) An analysis demonstrating that no equipment is in VOC service.

III. Monitoring and/or Record Keeping Requirements (continued)

31. [OAC rule 3745-21-09(DD)(14)(g)]
The following information pertaining to specific equipment that are exempt as provided in paragraph (DD)(17)(b) of OAC rule 3745-21-09 shall be recorded in a log that is kept in a readily accessible location:
- (i) A list of identification numbers of equipment in vacuum service;
 - (ii) A list of identification numbers of equipment not in VOC service and the information or data used to demonstrate that the equipment is not in VOC service; and
 - (iii) A list of equipment subject to an equivalent emission requirement that is approved by the director pursuant to paragraph (DD)(16) of OAC rule 3745-21-09.
32. [OAC rule 3745-21-09(DD)(16)]
Equivalent Requirement
- (a) Any owner or operator of a process unit may apply to the director for determination of an equivalent requirement in lieu of the requirements specified in paragraphs (DD)(2) to (DD)(10) of OAC rule 3745-21-09. The determination of equivalence will be evaluated by the guidelines specified in paragraphs (DD)(16)(b) to (DD)(16)(d) of OAC rule 3745-21-09. If the Director approves an equivalent requirement for a process unit, said requirement shall be specified in the special terms and conditions of the permit to operate or variance issued by the Director for the process unit.
 - (b) The owner or operator applying for a determination of equivalency shall be responsible for collecting and verifying test data to demonstrate the proposed equivalence.
 - (c) The equivalent requirement shall achieve a reduction in emissions of VOC at least equivalent to the reduction in emissions of VOC that would be achieved by compliance with the applicable requirements of paragraph (DD) of OAC rule 3745-21-09.
 - (d) The Director may condition the approval of equivalence as necessary to ensure the same emission reduction as the applicable requirements of paragraph (DD) of OAC rule 3745-21-09.
33. [OAC rule 3745-21-09(DD)(17)]
LDAR Program Exemptions
- (a) Exempted from the requirements of paragraphs (DD)(2) to (DD)(6) of OAC rule 3745-21-09 are the following process units:
 - (i) Any process unit that has a design capacity to produce less than one thousand one hundred tons per year;
 - (ii) Any process unit that produces only heavy liquid chemicals from heavy liquid feed or raw materials;
 - (iii) Any process unit that produces beverage alcohol;
 - (iv) Any process unit that has no equipment in VOC service as determined in accordance with paragraph (O)(2) of rule 3745-21-10 of the Administrative Code; and
 - (v) Any process unit at a petroleum refinery, as defined in paragraph (E)(15) of rule 3745-21-01 of the Administrative Code.
 - (b) Exempted from the requirements of paragraphs (DD)(2) to (DD)(6) of OAC rule 3745-21-09 are the following equipment:
 - (i) Any equipment not in VOC service, as determined in accordance with paragraph (O)(2) of rule 3745-21-10 of the Administrative Code;
 - (ii) Any equipment in vacuum service; and
 - (iii) Any equipment subject to an equivalent emission limitation as provided in paragraph (DD)(16) of OAC rule 3745-21-09.

III. Monitoring and/or Record Keeping Requirements (continued)

34. [40 CFR 63.1314(a)]
Storage Vessel Provisions

This section applies to each storage vessel that is assigned to an affected source, as determined by 63.1310(g). Except as provided in paragraphs (b) through (d) of 63.1314, the owner or operator of an affected source shall comply with the requirements of 63.119 through 63.123 and 63.148 for those storage vessels, with the differences noted in paragraphs (a)(1) through (a)(17) of 63.1314 for the purposes of this subpart.

- (1) When the term "storage vessel" is used in 63.119 through 63.123, the definition of this term in 63.1312 shall apply for the purposes of this subpart.
- (2) When the term "Group 1 storage vessel" is used in 63.119 through 63.123, the definition of this term in 63.1312 shall apply for the purposes of this subpart.
- (3) When the term "Group 2 storage vessel" is used in 63.119 through 63.123, the definition of this term in 63.1312 shall apply for the purposes of this subpart.
- (4) When the emissions averaging provisions of 63.150 are referred to in 63.119 and 63.123, the emissions averaging provisions contained in 63.1332 shall apply for the purposes of this subpart.
- (5) When December 31, 1992, is referred to in 63.119, March 29, 1995 shall apply instead, for the purposes of this subpart.
- (6) When April 22, 1994, is referred to in 63.119, June 19, 2000 shall apply instead, for the purposes of this subpart.
- (7) Each owner or operator of an affected source shall comply with this paragraph (a)(7) instead of 63.120(d)(1)(ii) for the purposes of this subpart. If the control device used to comply with 63.119(e) is also used to comply with any of the requirements found in 63.1315, 63.1316, 63.1322, or 63.1330, the performance test required in or accepted by the applicable requirements of 63.1315, 63.1316, 63.1322, and 63.1330 is acceptable for demonstrating compliance with 63.119(e) for the purposes of this subpart. The owner or operator is not required to prepare a design evaluation for the control device as described in 63.120(d)(1)(i), if the performance test meets the criteria specified in paragraphs (a)(7)(i) and (a)(7)(ii) of 63.1314.
 - (i) The performance test demonstrates that the control device achieves greater than or equal to the required control efficiency specified in 63.119(e)(1) or 63.119(e)(2), as applicable; and
 - (ii) The performance test is submitted as part of the Notification of Compliance Status required by 63.1335(e)(5).
- (8) When the term "range" is used in 63.120(d)(3), 63.120(d)(5), and 63.122(g)(2), the term "level" shall apply instead, for the purposes of this subpart.

III. Monitoring and/or Record Keeping Requirements (continued)

(9) For purposes of this subpart, the monitoring plan required by 63.120(d)(2) shall specify for which control devices the owner or operator has selected to follow the procedures for continuous monitoring specified in 63.1334. For those control devices for which the owner or operator has selected to not follow the procedures for continuous monitoring specified in 63.1334, the monitoring plan shall include a description of the parameter or parameters to be monitored to ensure that the control device is being properly operated and maintained, an explanation of the criteria used for selection of that parameter (or parameters), and the frequency with which monitoring will be performed (e.g., when the liquid level in the storage vessel is being raised), as specified in 63.120(d)(2)(i).

(10) For purposes of this subpart, the monitoring plan required by 63.122(b) shall be included in the Notification of Compliance Status required by 63.1335(e)(5).

(11) When the Notification of Compliance Status requirements contained in 63.152(b) are referred to in 63.120, 63.122, and 63.123, the Notification of Compliance Status requirements contained in 63.1335(e)(5) shall apply for the purposes of this subpart.

(12) When the Periodic Report requirements contained in 63.152(c) are referred to in 63.120 and 63.122, the Periodic Report requirements contained in 63.1335(e)(6) shall apply for the purposes of this subpart.

(13) When other reports as required in 63.152(d) are referred to in 63.122, the reporting requirements contained in 63.1335(e)(7) shall apply for the purposes of this subpart.

(14) When the Initial Notification requirements contained in 63.151(b) are referred to in 63.122, the owner or operator of an affected source subject to this subpart need not comply for the purposes of this subpart.

(15) When the determination of equivalence criteria in 63.102(b) is referred to in 63.121(a), the provisions in 63.6(g) shall apply for the purposes of this subpart.

(16) When 63.119(a) requires compliance according to the schedule provisions in 63.100, owners and operators of affected sources shall instead comply with the requirements in 63.119(a)(1) through 63.119(a)(4) by the compliance date for storage vessels, which is specified in 63.1311.

(17) In 63.120(e)(1), instead of the reference to 63.11(b), the requirements of 63.1333(e) shall apply.

35. [40 CFR 63.1314(b)]

Owners or operators of Group 1 storage vessels that are assigned to a new affected source producing styrene acrylonitrile (SAN) using a continuous process shall control emissions to the levels indicated in paragraphs (b)(1) and (b)(2) of 63.1314.

(1) For storage vessels with capacities greater than or equal to 2,271 cubic meters (m³) containing a liquid mixture having a vapor pressure greater than or equal to 0.5 kilopascal (kPa) but less than 0.7 kPa, emissions shall be controlled by at least 90 percent relative to uncontrolled emissions.

(2) For storage vessels with capacities less than 151 m³ containing a liquid mixture having a vapor pressure greater than or equal to 10 kPa, emissions shall be controlled by at least 98 percent relative to uncontrolled emissions.

(3) For all other storage vessels designated as Group 1 storage vessels, emissions shall be controlled to the level designated in 63.119.

36. [40 CFR 63.1314(c)]

Owners or operators of Group 1 storage vessels that are assigned to a new or existing affected source producing acrylonitrile styrene acrylate (ASA) / alpha methyl styrene acrylonitrile (AMSAN) shall control emissions by at least 98 percent relative to uncontrolled emissions.

37. [40 CFR 63.1314(d)]

The provisions of this subpart do not apply to storage vessels containing ethylene glycol at existing or new affected sources and storage vessels containing styrene at existing affected sources.

III. Monitoring and/or Record Keeping Requirements (continued)

38. [40 CFR 63.1315(a)]
Continuous Process Vents Provisions

For each continuous process vent located at an affected source, the owner or operator shall comply with the requirements of 63.113 through 63.118, with the differences noted in paragraphs (a)(1) through (a)(18) of 63.1315 for the purposes of this subpart, except as provided in paragraphs (b) through (e) of 63.1315.

(1) When the term "process vent" is used in 63.113 through 63.118, the term "continuous process vent," and the definition of this term in 63.1312 shall apply for the purposes of this subpart.

(2) When the term "Group 1 process vent" is used in 63.113 through 63.118, the term "Group 1 continuous process vent," and the definition of this term in 63.1312 shall apply for the purposes of this subpart.

(3) When the term "Group 2 process vent" is used in 63.113 through 63.118, the term "Group 2 continuous process vent," and the definition of this term in 63.1312 shall apply for the purposes of this subpart.

(4) When December 31, 1992 is referred to in 63.113, apply the date March 29, 1995, for the purposes of this subpart.

(5) When 63.151(f), alternative monitoring parameters, and 63.152(e), submission of an operating permit, are referred to in 63.114(c) and 63.117(e), 63.1335(f), alternative monitoring parameters, and 63.1335(e)(8), submission of an operating permit, respectively, shall apply for the purposes of this subpart.

(6) When the Notification of Compliance Status requirements contained in 63.152(b) are referred to in 63.114, 63.117, and 63.118, the Notification of Compliance Status requirements contained in 63.1335(e)(5) shall apply for the purposes of this subpart.

(7) When the Periodic Report requirements contained in 63.152(c) are referred to in 63.117 and 63.118, the Periodic Report requirements contained in 63.1335(e)(6) shall apply for the purposes of this subpart.

(8) When the definition of excursion in 63.152(c)(2)(ii)(A) is referred to in 63.118(f)(2), the definition of excursion in 63.1334(f) of this subpart shall apply for the purposes of this subpart.

(9) When 63.114(e) or 63.117(f) specifies that an owner or operator shall submit the information required in 63.152(b) in order to establish the parameter monitoring range, the owner or operator of an affected source shall comply with the provisions of 63.1335(e)(5) for purposes of reporting information related to establishment of the parameter monitoring level for purposes of this subpart. Further, the term "level" shall apply when the term "range" is used in 63.114, 63.117, and 63.118.

(10) When reports of process changes are required under 63.118(g), (h), (i), or (j), paragraphs (a)(10)(i) through (a)(10)(iv) of 63.1315 shall apply for the purposes of this subpart. In addition, for the purposes of this subpart, paragraph (a)(10)(v) of 63.1315 applies, and 63.118(k) does not apply to owners or operators of affected sources.

III. Monitoring and/or Record Keeping Requirements (continued)

(i) For the purposes of this subpart, whenever a process change, as defined in 63.115(e), is made that causes a Group 2 continuous process vent to become a Group 1 continuous process vent, the owner or operator shall submit a report within 180 days after the process change is made or with the next Periodic Report, whichever is later. A description of the process change shall be submitted with the report of the process change, and the owner or operator of the affected source shall comply with the Group 1 provisions in 63.113 through 63.118 in accordance with 63.1310(i)(2)(ii) or (i)(2)(iii), as applicable.

(ii) Whenever a process change, as defined in 63.115(e), is made that causes a Group 2 continuous process vent with a total resource effectiveness (TRE) greater than 4.0 to become a Group 2 continuous process vent with a TRE less than 4.0, the owner or operator shall submit a report within 180 days after the process change is made or with the next Periodic Report, whichever is later. A description of the process change shall be submitted with the report of the process change, and the owner or operator shall comply with the provisions in 63.113(d) by the dates specified in 63.1311.

(iii) Whenever a process change, as defined in 63.115(e), is made that causes a Group 2 continuous process vent with a flow rate less than 0.005 standard cubic meter per minute to become a Group 2 continuous process vent with a flow rate of 0.005 standard cubic meter per minute or greater and a TRE index value less than or equal to 4.0, the owner or operator shall submit a report within 180 days after the process change is made or with the next Periodic Report, whichever is later. A description of the process change shall be submitted with the report of the process change, and the owner or operator shall comply with the provisions in 63.113(d) by the dates specified in 63.1311.

(iv) Whenever a process change, as defined in 63.115(e), is made that causes a Group 2 continuous process vent with an organic HAP concentration less than 50 ppmv to become a Group 2 continuous process vent with an organic HAP concentration of 50 parts per million by volume or greater and a TRE index value less than or equal to 4.0, the owner or operator shall submit a report within 180 days after the process change is made or with the next Periodic Report, whichever is later. A description of the process change shall be submitted with the report of the process change, and the owner or operator shall comply with the provisions in 63.113(d) by the dates specified in 63.1311.

(v) The owner or operator is not required to submit a report of a process change if one of the conditions listed in paragraphs (a)(10)(v)(A), (a)(10)(v)(B), (a)(10)(v)(C), or (a)(10)(v)(D) of 63.1315 is met.

(A) The process change does not meet the definition of a process change in 63.115(e);

(B) The vent stream flow rate is recalculated according to 63.115(e) and the recalculated value is less than 0.005 standard cubic meter per minute;

(C) The organic HAP concentration of the vent stream is recalculated according to 63.115(e) and the recalculated value is less than 50 ppmv; or

(D) The TRE index value is recalculated according to 63.115(e) and the recalculated value is greater than 4.0, or for the affected sources producing methyl methacrylate butadiene styrene resin the recalculated value is greater than 6.7.

III. Monitoring and/or Record Keeping Requirements (continued)

(11) When the provisions of 63.116(c)(3) and (c)(4) specify that Method 18, 40 CFR part 60, appendix A shall be used, Method 18 or Method 25A, 40 CFR part 60, appendix A may be used for the purposes of this subpart. The use of Method 25A, 40 CFR part 60, appendix A shall conform with the requirements in paragraphs (a)(11)(i) and (a)(11)(ii) of 63.1315.

(i) The organic HAP used as the calibration gas for Method 25A, 40 CFR part 60, appendix A shall be the single organic HAP representing the largest percent by volume of the emissions.

(ii) The use of Method 25A, 40 CFR part 60, appendix A is acceptable if the response from the high-level calibration gas is at least 20 times the standard deviation of the response from the zero calibration gas when the instrument is zeroed on the most sensitive scale.

(12) When 63.118, periodic reporting and record keeping requirements, refers to 63.152(f), the record keeping requirements in 63.1335(d) shall apply for purposes of this subpart.

(13) If a batch process vent or aggregate batch vent stream is combined with a continuous process vent, the owner or operator of the affected source containing the combined vent stream shall comply with paragraph (a)(13)(i); with paragraph (a)(13)(ii) and with paragraph (a)(13)(iii) or (iv); or with paragraph (a)(13)(v) of 63.1315, as appropriate.

(i) If a batch process vent or aggregate batch vent stream is combined with a Group 1 continuous process vent prior to the combined vent stream being routed to a control device, the owner or operator of the affected source containing the combined vent stream shall comply with the requirements in paragraph (a)(13)(i)(A) or (B) of 63.1315.

(A) All requirements for a Group 1 process vent stream in 63.113 through 63.118, except as otherwise provided in this section. As specified in 63.1333(a)(1), performance tests shall be conducted at maximum representative operating conditions. For the purpose of conducting a performance test on a combined vent stream, maximum representative operating conditions shall be when batch emission episodes are occurring that result in the highest organic HAP emission rate (for the combined vent stream) that is achievable during one of the periods listed in 63.1333(a)(1)(i) or 63.1333(a)(1)(ii), without causing any of the situations described in paragraphs (a)(13)(i)(A)(1) through (3) to occur.

(1) Causing damage to equipment.

(2) Necessitating that the owner or operator make product that does not meet an existing specification for sale to a customer; or

(3) Necessitating that the owner or operator make product in excess of demand.

(B) Comply with the provisions in 63.1313(b)(1), as allowed under 63.1313(b).

(ii) If a batch process vent or aggregate batch vent stream is combined with a continuous process vent prior to the combined vent stream being routed to a recovery device, the TRE index value for the combined vent stream shall be calculated at the exit of the last recovery device. The TRE shall be calculated during periods when one or more batch emission episodes are occurring that result in the highest organic HAP emission rate (in the combined vent stream that is being routed to the recovery device) that is achievable during the 6-month period that begins 3 months before and ends 3 months after the TRE calculation, without causing any of the situations described in paragraphs (a)(13)(ii)(A) through (C) to occur.

III. Monitoring and/or Record Keeping Requirements (continued)

(A) Causing damage to equipment.

(B) Necessitating that the owner or operator make product that does not meet an existing specification for sale to a customer; or

(C) Necessitating that the owner or operator make product in excess of demand.

(iii) If the combined vent stream described in paragraph (a)(10)(ii) of 63.1315 meets the requirements in paragraphs (a)(13)(iii)(A), (B), and (C) of 63.1315, the combined vent stream shall be subject to the requirements for Group 1 process vents in 63.113 through 63.118, except as otherwise provided in 63.1315, as applicable. Performance tests for the combined vent stream shall be conducted at maximum operating conditions, as described in paragraph (a)(13)(i) of 63.1315.

(A) The TRE index value of the combined stream is less than or equal to 1.0;

(B) The flow rate of the combined vent stream is greater than or equal to 0.005 standard cubic meter per minute; and

(C) The total organic HAP concentration is greater than or equal to 50 ppmv for the combined vent stream.

(iv) If the combined vent stream described in paragraph (a)(10)(ii) of 63.1315 meets the requirements in paragraph (a)(13)(iv)(A), (B), or (C) of 63.1315, the combined vent stream shall be subject to the requirements for Group 2 process vents in 63.113 through 63.118, except as otherwise provided in 63.1315, as applicable.

(A) The TRE index value of the combined vent stream is greater than 1.0;

(B) The flow rate of the combined vent stream is less than 0.005 standard cubic meter per minute; or

(C) The total organic HAP concentration is less than 50 ppmv for the combined vent stream.

(v) If a batch process vent or aggregate batch vent stream is combined with a Group 2 continuous process vent, the owner or operator shall comply with the requirements in either paragraph (a)(13)(v)(A) or (a)(13)(v)(B) of 63.1315.

(A) The owner or operator shall comply with the requirements in 63.113 through 63.118 for Group 1 process vents; or

(B) The owner or operator shall comply with 63.1322(e)(2) for batch process vents and aggregate batch vent streams.

(14) If any gas stream that originates outside of an affected source that is subject to this subpart is normally conducted through the same final recovery device as any continuous process vent stream subject to this subpart, the owner or operator of the affected source with the combined vent stream shall comply with all requirements in 63.113 through 63.118 of subpart G of this part, except as otherwise noted in 63.1315, as applicable.

(i) Instead of measuring the vent stream flow rate at the sampling site specified in 63.115(b)(1), the sampling site for vent stream flow rate shall be prior to the final recovery device and prior to the point at which the gas stream that is not controlled under this subpart is introduced into the combined vent stream.

(ii) Instead of measuring total organic HAP or TOC concentrations at the sampling site specified in 63.115(c)(1), the sampling site for total organic HAP or TOC concentration shall be prior to the final recovery device and prior to the point at which the gas stream that is not controlled under this subpart is introduced into the combined vent stream.

III. Monitoring and/or Record Keeping Requirements (continued)

(iii) The efficiency of the final recovery device (determined according to paragraph (a)(14)(iv) of 63.1315) shall be applied to the total organic HAP or TOC concentration measured at the sampling site described in paragraph (a)(14)(ii) of 63.1315 to determine the exit concentration. This exit concentration of total organic HAP or TOC shall then be used to perform the calculations outlined in 63.115(d)(2)(iii) and 63.115(d)(2)(iv), for the combined vent stream exiting the final recovery device.

(iv) The efficiency of the final recovery device is determined by measuring the total organic HAP or TOC concentration using Method 18 or 25A, 40 CFR part 60, appendix A, at the inlet to the final recovery device after the introduction of any gas stream that is not controlled under this subpart, and at the outlet of the final recovery device.

(15) When 63.115(c)(3)(ii)(B) and (d)(2)(iv) and 63.116(c)(3)(ii)(B) and (c)(4)(ii)(C) refer to Table 2 of subpart F of this part, the owner or operator is only required to consider organic HAP listed on Table 6 of this subpart for purposes of this subpart.

(16) The compliance date for continuous process vents subject to the provisions of 63.1315 is specified in 63.1311.

(17) In 63.116(a), instead of the reference to 63.11(b), the requirements in 63.1333(e) shall apply.

(18) When a combustion device is used to comply with the 20 ppmv outlet concentration standard specified in 63.113(a)(2), the correction to 3 percent oxygen is only required when supplemental combustion air is used to combust the emissions, for the purposes of this subpart. In addition, the correction to 3 percent oxygen specified in 63.116(c)(3) and (c)(3)(iii) is only required when supplemental combustion air is used to combust the emissions, for the purposes of this subpart. Finally, when a combustion device is used to comply with the 20 ppmv outlet concentration standard specified in 63.113(a)(2), an owner or operator shall record and report the outlet concentration required in 63.117(a)(4)(ii) and (a)(4)(iv) corrected to 3 percent oxygen when supplemental combustion air is used to combust the emissions, for the purposes of this subpart. When supplemental combustion air is not used to combust the emissions, an owner or operator may record and report the outlet concentration required in 63.117(a)(4)(ii) and (a)(4)(iv) on an uncorrected basis or corrected to 3 percent oxygen, for the purposes of this subpart.

39. [40 CFR 63.1315(b)]

Owners or operators of existing affected sources producing methyl methacrylate butadiene styrene (MBS) shall comply with either paragraph (b)(1) or (b)(2) of 63.1315.

(1) Comply with paragraph (a) of 63.1315, as specified in paragraphs (b)(1)(i) and (b)(1)(ii).

(i) As specified in 63.1312, Group 1 continuous process vents at MBS existing affected sources are those with a total resource effectiveness value less than or equal to 3.7.

(ii) When complying with this paragraph (b) and the term "TRE of 4.0" is used, or related terms indicating a TRE index value of 4.0, referred to in 63.113 through 63.118, are used, the term "TRE of 6.7," shall apply instead, for the purposes of this subpart. The TRE range of 3.7 to 6.7 for continuous process vents at existing affected sources producing MBS corresponds to the TRE range of 1.0 to 4.0 for other continuous process vents, as it applies to monitoring, record keeping, and reporting.

(2) Not allow organic HAP emissions from the collection of continuous process vents at the affected source to be greater than 0.000590 kg organic HAP/Mg of product. Compliance with this paragraph (b)(2) shall be determined using the procedures specified in 63.1333(b).

40. [40 CFR 63.1315(c)]

Owners or operators of new affected sources producing SAN using a batch process shall comply with the applicable requirements in 63.1321.

III. Monitoring and/or Record Keeping Requirements (continued)

- 41.** [40 CFR 63.1315(d)]
Affected sources producing poly ethylene terephthalate (PET) or polystyrene using a continuous process are subject to the emissions control provisions of 63.1316, the monitoring provisions of 63.1317, the testing and compliance demonstration provisions of 63.1318, the recordkeeping provisions of 63.1319, and the reporting provisions of 63.1320. However, in some instances as specified in 63.1316, select continuous process vents present at affected sources producing PET or polystyrene using a continuous process are subject to the provisions of 63.1315.
- 42.** [40 CFR 63.1315(e)]
Owners or operators of affected sources producing ASA/AMSAN shall reduce organic HAP emissions from each continuous process vent, each batch process vent, and each aggregate batch vent stream by 98 weight-percent and shall comply with either paragraph (e)(1), (e)(2), or (e)(3), as appropriate. Where batch process vents or aggregate batch vent streams are combined with continuous process vents, the provisions of paragraph (a)(13) of 63.1315 shall apply for the purposes of this paragraph (e).
- (1) For each continuous process vent, comply with paragraph (a) of 63.1315 as specified in paragraphs (e)(1)(i) through (e)(1)(ii) of 63.1315.
- (i) For purpose of 63.1315, each continuous process vent shall be considered to be a Group 1 continuous process vent and the owner or operator of that continuous process vent shall comply with the requirements for a Group 1 continuous process vent.
- (ii) For purposes of 63.1315, the group determination procedure required by 63.115 shall not apply.
- (2) For each batch process vent, comply with 63.1321 through 63.1327 as specified in paragraphs (e)(2)(i) through (e)(2)(ii) of 63.1315.
- (i) For purpose of 63.1315, each batch process vent shall be considered to be a Group 1 batch process vent and the owner or operator of that batch process vent shall comply with the requirements for a Group 1 batch process vent contained in 63.1321 through 63.1327, except that each batch process vent shall be controlled to reduce organic HAP emissions by 98 weight-percent.
- (ii) For purposes of 63.1315, the group determination procedure required by 63.1323 shall not apply.
- (3) For each aggregate batch vent stream, comply with 63.1321 through 63.1327 as specified in paragraphs (e)(3)(i) through (e)(3)(ii) of 63.1315.
- (i) For purpose of 63.1315, each aggregate batch vent stream shall be considered to be a Group 1 aggregate batch vent stream and the owner or operator of that aggregate batch vent stream shall comply with the requirements for a Group 1 aggregate batch vent stream contained in 63.1321 through 63.1327, except that each aggregate batch vent stream shall be controlled to reduce organic HAP emissions by 98 weight-percent.
- (ii) For purposes of 63.1315, the group determination procedure required by 63.1323 shall not apply.
- 43.** [40 CFR 63.1317]
PET and Polystyrene Affected Sources - Monitoring Provisions
- Continuous process vents using a control or recovery device to comply with 63.1316 shall comply with the applicable monitoring provisions specified for continuous process vents in 63.1315(a), except that references to group determinations (i.e., total resource effectiveness) do not apply and owners or operators are not required to comply with 63.113.
- 44.** [40 CFR 63.1319(a)]
PET and Polystyrene Affected Sources - Recordkeeping Provisions
- Owners or operators using a control or recovery device to comply with 63.1316 shall comply with the applicable record keeping provisions specified in 63.1315(a), except that, for the purposes of this paragraph (a), references to group determinations (i.e., total resource effectiveness) do not apply, and owners or operators are not required to comply with 63.113.

III. Monitoring and/or Record Keeping Requirements (continued)

45. [40 CFR 63.1328]
Heat Exchange Systems Provisions

(a) Except as specified in paragraph (b) of 63.1328, each owner or operator of an affected source shall comply with 63.104, with the differences noted in paragraphs (c) through (h) of 63.1328, for the purposes of this subpart.

(b) The provisions of paragraph (a) of 63.1328 do not apply to each process contact cooling tower that is associated with an existing affected source manufacturing PET.

(c) When the term "chemical manufacturing process unit" is used in 63.104, the term "thermoplastic product process unit (TPPU)" shall apply for purposes of this subpart, with the exception noted in paragraph (d) of 63.1328.

(d) When the phrase "a chemical manufacturing process unit meeting the conditions of 63.100(b)(1) through (b)(3) of this subpart, except for chemical manufacturing process units meeting the condition specified in 63.100(c) of this subpart" is used in 63.104(a), the term "a TPPU, except for TPPUs meeting the condition specified in 63.1310(b)" shall apply for purposes of this subpart.

(e) When 63.104 refers to Table 4 of subpart F of this part or Table 9 of subpart G of this part, the owner or operator is only required to consider organic HAP listed on Table 6 of this subpart, except for ethylene glycol which need not be considered under 63.1328, for purposes of this subpart.

(f) When 63.104(c)(3) specifies the monitoring plan retention requirements, and when 63.104(f)(1) refers to the record retention requirements in 63.103(c)(1), the requirements in 63.1335(a) and 63.1335(h) shall apply, for purposes of this subpart.

(g) When 63.104(f)(2) requires information to be reported in the Periodic Reports required by 63.152(c), the owner or operator shall instead report the information specified in 63.104(f)(2) in the Periodic Reports required by 63.1335(e)(6), for the purposes of this subpart.

(h) The compliance date for heat exchange systems subject to the provisions of 63.1328 is specified in 63.1311.

46. [40 CFR 63.1331(a)]
Equipment Leak Provisions

The owner or operator of each affected source shall comply with the requirements of subpart H of this part, with the differences noted in paragraphs (a)(1) through (a)(13) of 63.1331.

(1) For an affected source producing polystyrene resin, the indications of liquids dripping, as defined in subpart H of this part, from bleed ports in pumps and agitator seals in light liquid service shall not be considered to be a leak. For purposes of this subpart, a "bleed port" is a technologically-required feature of the pump or seal whereby polymer fluid used to provide lubrication and/or cooling of the pump or agitator shaft exits the pump, thereby resulting in a visible dripping of fluid.

(2) The compliance date for the equipment leak provisions contained in 63.1331 is provided in 63.1311. Whenever subpart H of this part refers to the compliance dates specified in any paragraph contained in 63.100, the compliance dates listed in 63.1311(d) shall instead apply, for the purposes of this subpart. When 63.182(c)(4) refers to "sources subject to subpart F," the phrase "sources subject to this subpart" shall apply, for the purposes of this subpart. In addition, extensions of compliance dates are addressed by 63.1311(e) instead of 63.182(a)(6), for the purposes of this subpart.

(3) Owners and operators of an affected source subject to this subpart are not required to submit the Initial Notification required by 63.182(a)(1) and 63.182(b).

(4) As specified in 63.1335(e)(5), the Notification of Compliance Status required by paragraphs 63.182(a)(2) and 63.182(c) shall be submitted within 150 days (rather than 90 days) of the applicable compliance date specified in 63.1311 for the equipment leak provisions.

III. Monitoring and/or Record Keeping Requirements (continued)

(5) The information specified by 63.182(a)(3) and 63.182(d) (i.e., Periodic Reports) shall be submitted as part of the Periodic Reports required by 63.1335(e)(6).

(i) A leak is determined to be detected if there is evidence of a potential leak found by visual, audible, or olfactory means. Method 21, 40 CFR part 60, appendix A may not be used to determine the presence or absence of a leak.

(ii)(A) When a leak is detected, it shall be repaired as soon as practical, but not later than 15 days after it is detected, except as provided in 63.171.

(B) The first attempt at repair shall be made no later than 5 days after each leak is detected.

(C) Repaired shall mean that the visual, audible, olfactory, or other indications of a leak have been eliminated; that no bubbles are observed at potential leak sites during a leak check using soap solution; or that the system will hold a test pressure.

(iii) An owner or operator is not required to develop an initial list of identification numbers as would otherwise be required under 63.181(b)(1)(i) or 63.181(b)(4).

(iv) When recording the detection of a leak under 63.182(d)(1), the owner or operator of an affected source shall comply with paragraphs (a)(6)(iv)(A) through (a)(6)(iv)(B) of 63.1331.

(A) When complying with 63.181(d)(1), provide an identification number for the leaking equipment at the time of recordkeeping. Further, the owner or operator is not required to record the identification number of the instrument (i.e., Method 21 instrument) because the use of Method 21 is not an acceptable method for determining a leak under this paragraph (a)(6).

(B) An owner or operator is not required to comply with 63.181(d)(4) which requires a record of the maximum instrument reading measured by Method 21 of 40 CFR part 60, appendix A.

(v) Indications of liquids dripping, as defined in subpart H of this part, from packing glands for pumps in ethylene glycol service where the pump seal is designed to weep fluid shall not be considered to be a leak. Ethylene glycol dripping from pump seals must be captured in a catchpan and returned to the process.

(6) For pumps, valves, connectors, and agitators in heavy liquid service; pressure relief devices in light liquid or heavy liquid service; and instrumentation systems; owners or operators of affected sources producing PET shall comply with the requirements of paragraphs (a)(6)(i) and (ii) of this section instead of with the requirements of 63.139. Owners or operators of PET affected sources shall comply with all other provisions of Subpart H of this part for pumps, valves, connectors, and agitators in heavy liquid service; pressure relief devices in light liquid or heavy liquid service; and instrumentation systems, except as specified in paragraphs (a)(6)(iii) through (v) of 63.1331.

(i) A leak is determined to be detected if there is evidence of a potential leak found by visual, audible, or olfactory means. Method 21, 40 CFR part 60, appendix A may not be used to determine the presence or absence of a leak.

(ii)(A) When a leak is detected, it shall be repaired as soon as practical, but not later than 15 days after it is detected, except as provided in 63.171.

(B) The first attempt at repair shall be made no later than 5 days after each leak is detected.

(iii) An owner or operator is not required to develop an initial list of identification numbers as would otherwise be required under 63.181(b)(1)(i) or 63.181(b)(4).

(iv) When recording the detection of a leak under 63.182(d)(1), the owner or operator of an affected source shall comply with paragraphs (a)(6)(iv)(A) through (a)(6)(iv)(B) of 63.1331.

III. Monitoring and/or Record Keeping Requirements (continued)

(A) When complying with 63.181(d)(1), provide an identification number for the leaking equipment at the time of recordkeeping. Further, the owner or operator is not required to record the identification number of the instrument (i.e., Method 21 instrument) because the use of Method 21 is not an acceptable method for determining a leak under this paragraph (a)(6).

(B) An owner or operator is not required to comply with 63.181(d)(4) which requires a record of the maximum instrument reading measured by Method 21 of 40 CFR part 60, appendix A.

(v) Indications of liquids dripping, as defined in subpart H of this part, from packing glands for pumps in ethylene glycol service where the pump seal is designed to weep fluid shall not be considered to be a leak. Ethylene glycol dripping from pump seals must be captured in a catchpan and returned to the process.

(7) When 63.166(b)(4)(i) refers to Table 9 of subpart G of this part, the owner or operator is only required to consider organic HAP listed on Table 6 of this subpart for purposes of this subpart, except for ethylene glycol which need not be considered.

(8) When the provisions of subpart H of this part specify that Method 18, 40 CFR part 60, appendix A, shall be used, Method 18 or Method 25A, 40 CFR part 60, appendix A, may be used for the purposes of this subpart. The use of Method 25A, 40 CFR part 60, appendix A, shall conform with the requirements in paragraphs (a)(8)(i) and (a)(8)(ii) of 63.1331.

(i) The organic HAP used as the calibration gas for Method 25A, 40 CFR part 60, appendix A, shall be the single organic HAP representing the largest percent by volume of the emissions.

(ii) The use of Method 25A, 40 CFR part 60, appendix A, is acceptable if the response from the high-level calibration gas is at least 20 times the standard deviation of the response from the zero calibration gas when the instrument is zeroed on the most sensitive scale.

(9) Paragraph (a)(9) of 63.1331 is reserved.

(10) If specific items of equipment, comprising part of a process unit subject to this subpart, are managed by different administrative organizations (e.g., different companies, affiliates, departments, divisions, etc.), those items of equipment may be aggregated with any TPPU within the affected source for all purposes under subpart H of this part, providing there is no delay in achieving the applicable compliance date.

(11) When the terms "equipment" and "equipment leak" are used in subpart H of this part, the definitions of these terms in 63.1312 shall apply for the purposes of this subpart.

(12) The phrase "the provisions of subparts F, I, or JJJ of this part" shall apply instead of the phrase "the provisions of subpart F or I of this part" throughout 63.163 and 63.168, for the purposes of this subpart. In addition, the phrase "subparts F, I, and JJJ" shall apply instead of the phrase "subparts F and I" in 63.174(c)(2)(iii), for the purposes of this subpart.

(13) An owner or operator using a flare to comply with the requirements of 63.1331 shall conduct a compliance demonstration as specified in 63.1333(e).

47. [40 CFR 63.1334(a)] Parameter Monitoring Levels and Excursions

Establishment of parameter monitoring levels. The owner or operator of a control or recovery device that has one or more parameter monitoring level requirements specified under this subpart shall establish a maximum or minimum level for each measured parameter. If a performance test is required by this subpart for a control device, the owner or operator shall use the procedures in either paragraph (b) or (c) of 63.1334 to establish the parameter monitoring level(s). If a performance test is not required by this subpart for a control device, the owner or operator may use the procedures in paragraph (b), (c) or (d) of 63.1334 to establish the parameter monitoring level(s). When using the procedures specified in paragraph (c) or (d) of 63.1334, the owner or operator shall submit the information specified in 63.1335(e)(3)(vii) for review and approval as part of the Precompliance Report.

III. Monitoring and/or Record Keeping Requirements (continued)

(1) The owner or operator shall operate control and recovery devices such that the daily average of monitored parameters remains above the minimum established level or below the maximum established level, except as otherwise stated in this subpart.

(2) As specified in 63.1335(e)(5), all established levels, along with their supporting documentation and the definition of an operating day, shall be submitted as part of the Notification of Compliance Status.

(3) Nothing in 63.1334 shall be construed to allow a monitoring parameter excursion caused by an activity that violates other applicable provisions of subpart A, F, G, or H of this part.

48. [40 CFR 63.1334(b)]

Establishment of parameter monitoring levels based exclusively on performance tests. In cases where a performance test is required by this subpart, or the owner or operator of the affected source elects to do a performance test in accordance with the provisions of this subpart, and an owner or operator elects to establish a parameter monitoring level for a control, recovery, or recapture device based exclusively on parameter values measured during the performance test, the owner or operator of the affected source shall comply with the procedures in paragraphs (b)(1) through (b)(4) of 63.1334, as applicable.

(1) Paragraph (b)(1) of 63.1334 is reserved.

(2) Continuous process vents. During initial compliance testing, the appropriate parameter shall be continuously monitored during the required 1-hour runs. The monitoring level(s) shall then be established as the average of the maximum (or minimum) point values from the three test runs. The average of the maximum values shall be used when establishing a maximum level, and the average of the minimum values shall be used when establishing a minimum level.

(3) Batch process vents. The monitoring level(s) shall be established using the procedures specified in either paragraph (b)(3)(i) or (b)(3)(ii) of 63.1334. The procedures specified in this paragraph (b)(3) may only be used if the batch emission episodes, or portions thereof, selected to be controlled were tested, and monitoring data were collected, during the entire period in which emissions were vented to the control device, as specified in 63.1325(c)(1)(i). If the owner or operator chose to test only a portion of the batch emission episode, or portion thereof, selected to be controlled, the procedures in paragraph (c) of 63.1334 shall be used.

(i) If more than one batch emission episode or more than one portion of a batch emission episode has been selected to be controlled, a single level for the batch cycle shall be calculated as follows:

(A) The average monitored parameter value shall be calculated for each batch emission episode, or portion thereof, in the batch cycle selected to be controlled. The average shall be based on all values measured during the required performance test.

(B) If the level to be established is a maximum operating parameter, the level shall be defined as the minimum of the average parameter values of the batch emission episodes, or portions thereof, in the batch cycle selected to be controlled (i.e., identify the emission episode, or portion thereof, which requires the lowest parameter value in order to assure compliance. The average parameter value that is necessary to assure compliance for that emission episode, or portion thereof, shall be the level for all emission episodes, or portions thereof, in the batch cycle, that are selected to be controlled).

III. Monitoring and/or Record Keeping Requirements (continued)

(C) If the level to be established is a minimum operating parameter, the level shall be defined as the maximum of the average parameter values of the batch emission episodes, or portions thereof, in the batch cycle selected to be controlled (i.e., identify the emission episode, or portion thereof, which requires the highest parameter value in order to assure compliance. The average parameter value that is necessary to assure compliance for that emission episode, or portion thereof, shall be the level for all emission episodes, or portions thereof, in the batch cycle, that are selected to be controlled).

(D) Alternatively, an average monitored parameter value shall be calculated for the entire batch cycle based on all values measured during each batch emission episode, or portion thereof, selected to be controlled.

(ii) Instead of establishing a single level for the batch cycle, as described in paragraph (b)(3)(i) of 63.1334, an owner or operator may establish separate levels for each batch emission episode, or portion thereof, selected to be controlled. Each level shall be determined as specified in paragraph (b)(3)(i)(A) of 63.1334.

(iii) The batch cycle shall be defined in the Notification of Compliance Status, as specified in 63.1335(e)(5). Said definition shall include an identification of each batch emission episode and the information required to determine parameter monitoring compliance for partial batch cycles (i.e., when part of a batch cycle is accomplished during two different operating days).

(4) Aggregate batch vent streams. For aggregate batch vent streams, the monitoring level shall be established in accordance with paragraph (b)(2) of 63.1334.

49. [40 CFR 63.1334(c)]
Establishment of parameter monitoring levels based on performance tests, supplemented by engineering assessments and/or manufacturer's recommendations. In cases where a performance test is required by this subpart, or the owner or operator elects to do a performance test in accordance with the provisions of this subpart, and an owner or operator elects to establish a parameter monitoring level for a control, recovery, or recapture device under this paragraph (c), the owner or operator shall supplement the parameter values measured during the performance test with engineering assessments and/or manufacturer's recommendations. Performance testing is not required to be conducted over the entire range of expected parameter values.
50. [40 CFR 63.1334(d)]
Establishment of parameter monitoring based on engineering assessments and/or manufacturer's recommendations. In cases where a performance test is not required by this subpart and an owner or operator elects to establish a parameter monitoring level for a control, recovery, or recapture device under this paragraph (d), the determination of the parameter monitoring level shall be based exclusively on engineering assessments and/or manufacturer's recommendations.
51. [40 CFR 63.1334(e)]
Paragraph (e) of 63.1334 is reserved.

III. Monitoring and/or Record Keeping Requirements (continued)

52. [40 CFR 63.1334(f)]

Parameter monitoring excursion definitions. (1) With respect to storage vessels (where the applicable monitoring plan specifies continuous monitoring), continuous process vents, aggregate batch vent streams, and process wastewater streams, an excursion means any of the three cases listed in paragraphs (f)(1)(i) through (f)(1)(iii) of 63.1334. For a control or recovery device where multiple parameters are monitored, if one or more of the parameters meets the excursion criteria in paragraphs (f)(1)(i) through (f)(1)(iii) of 63.1334, this is considered a single excursion for the control or recovery device. For each excursion, the owner or operator shall be deemed out of compliance with the provisions of this subpart, except as provided in paragraph (g) of 63.1334.

(i) When the daily average value of one or more monitored parameters is above the maximum level or below the minimum level established for the given parameters.

(ii) When the period of control or recovery device operation, with the exception noted in paragraph (f)(1)(v) of 63.1334, is 4 hours or greater in an operating day, and monitoring data are insufficient, as defined in paragraph (f)(1)(iv) of 63.1334, to constitute a valid hour of data for at least 75 percent of the operating hours.

(iii) When the period of control or recovery device operation, with the exception noted in paragraph (f)(1)(v) of 63.1334, is less than 4 hours in an operating day and more than two of the hours during the period of operation do not constitute a valid hour of data due to insufficient monitoring data, as defined in paragraph (f)(1)(iv) of 63.1334.

(iv) Monitoring data are insufficient to constitute a valid hour of data, as used in paragraphs (f)(1)(ii) and (f)(1)(iii) of 63.1334, if measured values are unavailable for any of the 15-minute periods within the hour. For data compression systems approved under 63.1335(g)(3), monitoring data are insufficient to calculate a valid hour of data if there are less than four data measurements made during the hour.

(v) The periods listed in paragraphs (f)(1)(v)(A) through (f)(1)(v)(E) of 63.1334 are not considered to be part of the period of control or recovery device operation, for the purposes of paragraphs (f)(1)(ii) and (f)(1)(iii) of 63.1334.

(A) Monitoring system breakdowns, repairs, calibration checks, and zero (low-level) and high-level adjustments;

(B) Start-ups;

(C) Shutdowns;

(D) Malfunctions; or

(E) Periods of non-operation of the affected source (or portion thereof), resulting in cessation of the emissions to which the monitoring applies.

III. Monitoring and/or Record Keeping Requirements (continued)

- 53.** [40 CFR 63.1334(g)]
Excused excursions. A number of excused excursions shall be allowed for each control or recovery device for each semiannual period. The number of excused excursions for each semiannual period is specified in paragraphs (g)(1) through (g)(6) of 63.1334. This paragraph (g) applies to affected sources required to submit Periodic Reports semiannually or quarterly. The first semiannual period is the 6-month period starting the date the Notification of Compliance Status is due.
- (1) For the first semiannual period -- six excused excursions.
 - (2) For the second semiannual period -- five excused excursions.
 - (3) For the third semiannual period -- four excused excursions.
 - (4) For the fourth semiannual period -- three excused excursions.
 - (5) For the fifth semiannual period -- two excused excursions.
 - (6) For the sixth and all subsequent semiannual periods -- one excused excursion.
- 54.** [40 CFR 63.1335(a)]
General Record keeping and Reporting Provisions
- Data retention. Unless otherwise specified in this subpart, the owner or operator of an affected source shall keep copies of all applicable records and reports required by this subpart for at least 5 years, as specified in paragraph (a)(1) of 63.1335, with the exception listed in paragraph (a)(2) of 63.1335.
- (1) All applicable records shall be maintained in such a manner that they can be readily accessed. The most recent 6 months of records shall be retained on site or shall be accessible from a central location by computer or other means that provides access within 2 hours after a request. The remaining 4 and one-half years of records may be retained offsite. 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.
 - (2) If an owner or operator submits copies of reports to the appropriate EPA Regional Office, the owner or operator is not required to maintain copies of reports. If the EPA Regional Office has waived the requirement of 63.10(a)(4)(ii) for submittal of copies of reports, the owner or operator is not required to maintain copies of those reports.
- 55.** [40 CFR 63.1335(b)]
Requirements of subpart A of this part. The owner or operator of an affected source shall comply with the applicable record keeping and reporting requirements in subpart A of this part as specified in Table 1 of this subpart. These requirements include, but are not limited to, the requirements specified in paragraphs (b)(1) and (b)(2) of 63.1335.
- (1) Start-up, shutdown, and malfunction plan. The owner or operator of an affected source shall develop and implement a written start-up, shutdown, and malfunction plan as specified in 63.6(e)(3). This plan shall describe, in detail, procedures for operating and maintaining the affected source during periods of start-up, shutdown, and malfunction and a program for corrective action for malfunctioning process and air pollution control equipment used to comply with this subpart. Inclusion of Group 2 emission points is not required, unless these points are included in an emissions average. For equipment leaks (subject to 63.1331), the start-up, shutdown, and malfunction plan requirement is limited to control devices and is optional for other equipment. For equipment leaks, the start-up, shutdown, and malfunction plan may include written procedures that identify conditions that justify a delay of repair. A provision for ceasing to collect, during a start-up, shutdown, or malfunction, monitoring data that would otherwise be required by the provisions of this subpart may be included in the start-up, shutdown, and malfunction plan only if the owner or operator has demonstrated to the Administrator, through the Precompliance Report or a supplement to the Precompliance Report, that the monitoring system would be damaged or destroyed if it were not shut down during the start-up, shutdown, or malfunction. The affected source shall keep the start-up, shutdown, and malfunction plan on-site.

III. Monitoring and/or Record Keeping Requirements (continued)

Records associated with the plan shall be kept as specified in paragraphs (b)(1)(i)(A) through (b)(1)(i)(C) of 63.1335. Reports related to the plan shall be submitted as specified in paragraph (b)(1)(ii) of 63.1335.

(i) Records of start-up, shutdown, and malfunction. The owner or operator shall keep the records specified in paragraphs (b)(1)(i)(A) through (b)(1)(i)(C) of 63.1335.

(A) Records of the occurrence and duration of each start-up, shutdown, and malfunction of operation of process equipment or control devices or recovery devices or continuous monitoring systems used to comply with this subpart during which excess emissions (as defined in 63.1310(j)(4)) occur.

(B) For each start-up, shutdown, or malfunction during which excess emissions (as defined in 63.1310(j)(4)) occur, records reflecting whether the procedures specified in the affected source's start-up, shutdown, and malfunction plan were followed, and documentation of actions taken that are not consistent with the plan. For example, if a start-up, shutdown, and malfunction plan includes procedures for routing a control device to a backup control device, records shall be kept of whether the plan was followed. These records may take the form of a "checklist," or other form of recordkeeping that confirms conformance with the start-up shutdown, and malfunction plan for the event.

(C) Records specified in paragraphs (b)(1)(i)(A) through (b)(1)(i)(B) of 63.1335 are not required if they pertain solely to Group 2 emission points that are not included in an emissions average.

(2) Application for approval of construction or reconstruction. For new affected sources, each owner or operator shall comply with the provisions in 63.5 regarding construction and reconstruction, excluding the provisions specified in 63.5(d)(1)(ii)(H), (d)(1)(iii), (d)(2), and (d)(3)(ii).

56. [40 CFR 63.1335(c)]
Paragraph (c) of 63.1335 is reserved.

57. [40 CFR 63.1335(d)]
Record keeping and documentation. Owners or operators required to keep continuous records shall keep records as specified in paragraphs (d)(1) through (d)(7) of 63.1335, unless an alternative recordkeeping system has been requested and approved as specified in paragraph (g) of 63.1335, and except as provided in paragraph (h) of 63.1335. If a monitoring plan for storage vessels pursuant to 63.1314(a)(9) requires continuous records, the monitoring plan shall specify which provisions, if any, of paragraphs (d)(1) through (d)(7) of 63.1335 apply. As described in 63.1314(a)(9), certain storage vessels are not required to keep continuous records as specified in this paragraph. Owners and operators of such storage vessels shall keep records as specified in the monitoring plan required by 63.1314(a)(9). Paragraphs (d)(8) and (d)(9) of 63.1335 specify documentation requirements.

(1) The monitoring system shall measure data values at least once every 15 minutes.

III. Monitoring and/or Record Keeping Requirements (continued)

(2) The owner or operator shall record either each measured data value or block average values for 1 hour or shorter periods calculated from all measured data values during each period. If values are measured more frequently than once per minute, a single value for each minute may be used to calculate the hourly (or shorter period) block average instead of all measured values. Owners or operators of batch process vents shall record each measured data value.

(3) Daily average (or batch cycle daily average) values of each continuously monitored parameter shall be calculated for each operating day as specified in paragraphs (d)(3)(i) through (d)(3)(ii) of 63.1335, except as specified in paragraphs (d)(6) and (d)(7) of 63.1335.

(i) The daily average value or batch cycle daily average shall be calculated as the average of all parameter values recorded during the operating day, except as specified in paragraph (d)(7) of 63.1335. For batch process vents, as specified in 63.1326(e)(2)(i), only parameter values measured during those batch emission episodes, or portions thereof, in the batch cycle that the owner or operator has chosen to control shall be used to calculate the average. The calculated average shall cover a 24-hour period if operation is continuous, or the number of hours of operation per operating day if operation is not continuous.

(ii) The operating day shall be the period the owner or operator specifies in the operating permit or the Notification of Compliance Status for purposes of determining daily average values or batch cycle daily average values of monitored parameters.

(4) Paragraph (d)(4) of 63.1335 is reserved.

(5) Paragraph (d)(5) of 63.1335 is reserved.

(6) Records required when all recorded values are within the established limits. If all recorded values for a monitored parameter during an operating day are above the minimum level or below the maximum level established in the Notification of Compliance Status or operating permit, the owner or operator may record that all values were above the minimum level or below the maximum level rather than calculating and recording a daily average (or batch cycle daily average) for that operating day.

(7) Monitoring data recorded during periods identified in paragraphs (d)(7)(i) through (d)(7)(v) of 63.1335 shall not be included in any average computed under this subpart. Records shall be kept of the times and durations of all such periods and any other periods during process or control device or recovery device operation when monitors are not operating.

(i) Monitoring system breakdowns, repairs, calibration checks, and zero (low-level) and high-level adjustments;

(ii) Start-ups;

(iii) Shutdowns;

(iv) Malfunctions;

(v) Periods of non-operation of the affected source (or portion thereof), resulting in cessation of the emissions to which the monitoring applies.

(8) For continuous monitoring systems used to comply with this subpart, records documenting the completion of calibration checks, and records documenting the maintenance of continuous monitoring systems that are specified in the manufacturer's instructions or that are specified in other written procedures that provide adequate assurance that the equipment would reasonably be expected to monitor accurately.

(9) The owner or operator of an affected source granted a waiver under 63.10(f) shall maintain the information, if any, specified by the Administrator as a condition of the waiver of record keeping or reporting requirements.

III. Monitoring and/or Record Keeping Requirements (continued)

58. [40 CFR 63.1335(f)]

Alternative monitoring parameters. The owner or operator who has been directed by any section of this subpart or any section of another subpart referenced by this subpart, that expressly referenced this paragraph (f) to set unique monitoring parameters, or who requests approval to monitor a different parameter than those specified in 63.1314 for storage vessels, 63.1315 or 63.1317, as appropriate, for continuous process vents, 63.1321 for batch process vents and aggregate batch vent streams, or 63.1330 for process wastewater shall submit the information specified in paragraphs (f)(1) through (f)(3) of 63.1335 in the Precompliance Report, as required by paragraph (e)(3) of 63.1335. The owner or operator shall retain for a period of 5 years each record required by paragraphs (f)(1) through (f)(3) of 63.1335.

(1) The required information shall include a description of the parameter(s) to be monitored to ensure the recovery device, control device, or pollution prevention measure is operated in conformance with its design and achieves the specified emission limit, percent reduction, or nominal efficiency, and an explanation of the criteria used to select the parameter(s).

(2) The required information shall include a description of the methods and procedures that will be used to demonstrate that the parameter indicates proper operation, the schedule for this demonstration, and a statement that the owner or operator will establish a level for the monitored parameter as part of the Notification of Compliance Status report required in paragraph (e)(5) of 63.1335, unless this information has already been included in the operating permit application.

(3) The required information shall include a description of the proposed monitoring, record keeping, and reporting system, to include the frequency and content of monitoring, recordkeeping, and reporting. Further, the rationale for the proposed monitoring, recordkeeping, and reporting system shall be included if either condition in paragraph (f)(3)(i) or (f)(3)(ii) of 63.1335 is met:

(i) If monitoring and recordkeeping is not continuous; or

(ii) If reports of daily average values will not be included in Periodic Reports when the monitored parameter value is above the maximum level or below the minimum level as established in the operating permit or the Notification of Compliance Status.

59. [40 CFR 63.1335(g)]

Alternative continuous monitoring and record keeping. An owner or operator choosing not to implement the provisions listed in 63.1315 or 63.1317, as appropriate, for continuous process vents, 63.1321 for batch process vents and aggregate batch vent streams, or 63.1330 for process wastewater, may instead request approval to use alternative continuous monitoring and record keeping provisions according to the procedures specified in paragraphs (g)(1) through (g)(4) of 63.1335. Requests shall be submitted in the Precompliance Report as specified in paragraph (e)(3)(iv) of 63.1335, if not already included in the operating permit application, and shall contain the information specified in paragraphs (g)(2)(ii) and (g)(3)(ii) of 63.1335, as applicable.

(1) The provisions in 63.8(f)(5)(i) shall govern the review and approval of requests.

(2) An owner or operator of an affected source that does not have an automated monitoring and recording system capable of measuring parameter values at least once every 15 minutes and that does not generate continuous records may request approval to use a nonautomated system with less frequent monitoring, in accordance with paragraphs (g)(2)(i) and (g)(2)(ii) of 63.1335.

III. Monitoring and/or Record Keeping Requirements (continued)

(i) The requested system shall include manual reading and recording of the value of the relevant operating parameter no less frequently than once per hour. Daily average (or batch cycle daily average) values shall be calculated from these hourly values and recorded.

(ii) The request shall contain:

(A) A description of the planned monitoring and record keeping system;

(B) Documentation that the affected source does not have an automated monitoring and recording system;

(C) Justification for requesting an alternative monitoring and record keeping system; and

(D) Demonstration to the Administrator's satisfaction that the proposed monitoring frequency is sufficient to represent control or recovery device operating conditions, considering typical variability of the specific process and control or recovery device operating parameter being monitored.

(3) An owner or operator may request approval to use an automated data compression recording system that does not record monitored operating parameter values at a set frequency, but records all values that meet set criteria for variation from previously recorded values, in accordance with paragraphs (g)(3)(i) and (g)(3)(ii) of 63.1335.

(i) The requested system shall be designed to:

(A) Measure the operating parameter value at least once during every 15 minute period;

(B) Except for the monitoring of batch process vents, calculate hourly average values each hour during periods of operation;

(C) Record the date and time when monitors are turned off or on;

(D) Recognize unchanging data that may indicate the monitor is not functioning properly, alert the operator, and record the incident;

(E) Calculate daily average (or batch cycle daily average) values of the monitored operating parameter based on all measured data; and

(F) If the daily average is not an excursion, as defined in 63.1334(f), the data for that operating day may be converted to hourly average values and the four or more individual records for each hour in the operating day may be discarded.

(ii) The request shall contain:

(A) A description of the monitoring system and data compression recording system, including the criteria used to determine which monitored values are recorded and retained;

(B) The method for calculating daily averages and batch cycle daily averages; and

(C) A demonstration that the system meets all criteria in paragraph (g)(3)(i) of 63.1335.

(4) An owner or operator may request approval to use other alternative monitoring systems according to the procedures specified in 63.8(f)(4).

60. [40 CFR 63.1335(h)]

Reduced record keeping program. For any parameter with respect to any item of equipment, the owner or operator may implement the record keeping requirements specified in paragraph (h)(1) or (h)(2) of 63.1335 as alternatives to the continuous operating parameter monitoring and record keeping provisions that would otherwise apply under this subpart. The owner or operator shall retain for a period of 5 years each record required by paragraph (h)(1) or (h)(2) of 63.1335, except as otherwise provided in paragraph (h)(1)(vi)(D) of 63.1335.

III. Monitoring and/or Record Keeping Requirements (continued)

61. [40 CFR 63.1335(h)(1)]

The owner or operator may retain only the daily average (or batch cycle daily average) value, and is not required to retain more frequent monitored operating parameter values, for a monitored parameter with respect to an item of equipment, if the requirements of paragraphs (h)(1)(i) through (h)(1)(vi) of 63.1335 are met. An owner or operator electing to comply with the requirements of paragraph (h)(1) of 63.1335 shall notify the Administrator in the Notification of Compliance Status as specified in paragraph (e)(5)(xi) of 63.1335 or, if the Notification of Compliance Status has already been submitted, in the Periodic Report immediately preceding implementation of the requirements of paragraph (h)(1) of 63.1335 as specified in paragraph (e)(6)(ix) of 63.1335.

(i) The monitoring system is capable of detecting unrealistic or impossible data during periods of operation other than start-ups, shutdowns, or malfunctions (e.g., a temperature reading of -200 deg. C on a boiler), and will alert the operator by alarm or other means. The owner or operator shall record the occurrence. All instances of the alarm or other alert in an operating day constitute a single occurrence.

(ii) The monitoring system generates, updated at least hourly throughout each operating day, a running average of the monitoring values that have been obtained during that operating day, and the capability to observe this running average is readily available to the Administrator on-site during the operating day. The owner or operator shall record the occurrence of any period meeting the criteria in paragraphs (h)(1)(ii)(A) through (h)(1)(ii)(C) of 63.1335. All instances in an operating day constitute a single occurrence.

(A) The running average is above the maximum or below the minimum established limits;

(B) The running average is based on at least six 1-hour average values; and

(C) The running average reflects a period of operation other than a start-up, shutdown, or malfunction.

(iii) The monitoring system is capable of detecting unchanging data during periods of operation other than start-ups, shutdowns, or malfunctions, except in circumstances where the presence of unchanging data is the expected operating condition based on past experience (e.g., pH in some scrubbers), and will alert the operator by alarm or other means. The owner or operator shall record the occurrence. All instances of the alarm or other alert in an operating day constitute a single occurrence.

(iv) The monitoring system will alert the owner or operator by an alarm or other means, if the running average parameter value calculated under paragraph (h)(1)(ii) of 63.1335 reaches a set point that is appropriately related to the established limit for the parameter that is being monitored.

III. Monitoring and/or Record Keeping Requirements (continued)

(v) The owner or operator shall verify the proper functioning of the monitoring system, including its ability to comply with the requirements of paragraph (h)(1) of 63.1335, at the times specified in paragraphs (h)(1)(v)(A) through (h)(1)(v)(C). The owner or operator shall document that the required verifications occurred.

(A) Upon initial installation.

(B) Annually after initial installation.

(C) After any change to the programming or equipment constituting the monitoring system, which might reasonably be expected to alter the monitoring system's ability to comply with the requirements of this section.

(vi) The owner or operator shall retain the records identified in paragraphs (h)(1)(vi)(A) through (h)(1)(vi)(D) of 63.1335.

(A) Identification of each parameter, for each item of equipment, for which the owner or operator has elected to comply with the requirements of paragraph (h) of 63.1335.

(B) A description of the applicable monitoring system(s), and of how compliance will be achieved with each requirement of paragraphs (h)(1)(i) through (h)(1)(v) of 63.1335. The description shall identify the location and format (e.g., on-line storage, log entries) for each required record. If the description changes, the owner or operator shall retain both the current and the most recent superseded description, as provided in paragraph (a) of 63.1335, except as provided in paragraph (h)(1)(vi)(D) of 63.1335.

(C) A description, and the date, of any change to the monitoring system that would reasonably be expected to impair its ability to comply with the requirements of paragraph (h)(1) of 63.1335.

(D) Owners and operators subject to paragraph (h)(1)(vi)(B) of 63.1335 shall retain the current description of the monitoring system as long as the description is current. The current description shall, at all times, be retained on-site or be accessible from a central location by computer or other means that provides access within 2 hours after a request. The owner or operator shall retain all superseded descriptions for at least 5 years after the date of their creation. Superseded descriptions shall be retained on-site (or accessible from a central location by computer or other means that provides access within 2 hours after a request) for at least 6 months after their creation. Thereafter, superseded descriptions may be stored off-site.

62. [40 CFR 63.1335(h)(2)]

If an owner or operator has elected to implement the requirements of paragraph (h)(1) of 63.1335 for a monitored parameter with respect to an item of equipment and a period of 6 consecutive months has passed without an excursion as defined in paragraph (h)(2)(iv) of 63.1335, the owner or operator is no longer required to record the daily average (or batch cycle daily average) value for any operating day when the daily average (or batch cycle daily average) value is less than the maximum or greater than the minimum established limit. With approval by the Administrator, monitoring data generated prior to the compliance date of this subpart shall be credited toward the period of 6 consecutive months, if the parameter limit and the monitoring accomplished during the period prior to the compliance date was required and/or approved by the Administrator.

(i) If the owner or operator elects not to retain the daily average (or batch cycle daily average) values, the owner or operator shall notify the Administrator in the next Periodic Report as specified in paragraph (e)(6)(x) of 63.1335. The notification shall identify the parameter and unit of equipment.

III. Monitoring and/or Record Keeping Requirements (continued)

(ii) If, on any operating day after the owner or operator has ceased recording daily average (or batch cycle daily average) values as provided in paragraph (h)(2) of 63.1335, there is an excursion as defined in paragraph (h)(2)(iv) of 63.1335, the owner or operator shall immediately resume retaining the daily average (or batch cycle daily average) value for each operating day and shall notify the Administrator in the next Periodic Report. The owner or operator shall continue to retain each daily average (or batch cycle daily average) value until another period of 6 consecutive months has passed without an excursion as defined in paragraph (h)(2)(iv) of 63.1335.

(iii) The owner or operator shall retain the records specified in paragraphs (h)(1)(i) through (h)(1)(iii) of 63.1335, for the duration specified in paragraph (h) of 63.1335. For any calendar week, if compliance with paragraphs (h)(1)(i) through (h)(1)(iv) of 63.1335 does not result in retention of a record of at least one occurrence or measured parameter value, the owner or operator shall record and retain at least one parameter value during a period of operation other than a start-up, shutdown, or malfunction.

(iv) For purposes of paragraph (h) of 63.1335, an excursion means that the daily average (or batch cycle daily average) value of monitoring data for a parameter is greater than the maximum, or less than the minimum established value, except as provided in paragraphs (h)(2)(iv)(A) and (h)(2)(iv)(B) of 63.1335.

(A) The daily average (or batch cycle daily average) value during any start-up, shutdown, or malfunction shall not be considered an excursion for purposes of paragraph (h)(2) of 63.1335, if the owner or operator follows the applicable provisions of the start-up, shutdown, and malfunction plan required by 63.6(e)(3).

(B) An excused excursion, as described in 63.1334(g), shall not be considered an excursion for purposes of paragraph (h)(2) of 63.1335.

63. The permittee shall collect and record the following information each month for this emissions unit:

- a. the amount of polystyrene produced, in tons;
- b. the total hours of polystyrene production; and
- c. the average hourly polystyrene production rate for the month, in tons/hr.

64. The permittee shall collect and record the annual polystyrene production rate, in tons per year, each year for this emissions unit.

65. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the weekly check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

III. Monitoring and/or Record Keeping Requirements (continued)

66. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 06-4863, issued on October 2, 1996: sections A.III.1 through A.III.65. The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

IV. Reporting Requirements

1. The permittee shall submit deviation reports that identify the days during which photochemically reactive materials were employed in this emissions unit. Each report shall identify the cause for the use of the photochemically reactive material(s), and the estimated total quantity of material(s) emitted during each such day, in pounds. Each report shall be submitted to the Director (the Ohio EPA, Southeast District Office) within 30 days of the deviation.
2. [OAC rule 3745-21-09(DD)(2)(m)]
Semiannual LDAR reports shall be submitted to the Ohio EPA, Southeast District Office by the first day of February and August and shall include the following information for the preceding semiannual periods:
 - (i) The process unit identification;
 - (ii) The number of pumps in light liquid service excluding those pumps designated for no detectable emissions under the provision of paragraph (DD)(2)(d)(i) of OAC rule 3745-21-09 and those pumps complying with paragraph (DD)(2)(d)(iii) of OAC rule 3745-21-09;
 - (iii) The number of valves in gas/vapor service or in light liquid service excluding those valves designated for no detectable emission under the provision of paragraph (DD)(2)(d)(iv) of OAC rule 3745-21-09 and those valves subject to the alternative standard for monitoring under the provision of paragraph (DD)(2)(d)(v) of OAC rule 3745-21-09;
 - (iv) The number of compressors excluding those compressors designated for no detectable emissions under the provision of paragraph (DD)(3)(c) of OAC rule 3745-21-09 and those compressors complying with paragraph (DD)(3)(d) or (DD)(3)(e) of OAC rule 3745-21-09;
 - (v) For each month during the semiannual period:
 - (a) The number of pumps in light liquid service for which leaks were detected as described in paragraph (DD)(2)(g) of OAC rule 3745-21-09;
 - (b) The number of pumps in light liquid service for which leaks were not repaired within fifteen calendar days after the date of leak detection;
 - (c) The number of valves in gas/vapor service or in light liquid service for which leaks were detected as described in paragraph (DD)(2)(g) of OAC rule 3745-21-09;
 - (d) The number of valves in gas/vapor service or in light liquid service for which leaks were not repaired within fifteen calendar days after the date of leak detection;
 - (e) The number of compressors for which leaks were detected as described in paragraph (DD) of OAC rule 3745-21-09;
 - (f) The number of compressors for which leaks were not repaired within fifteen calendar days after the date of leak detection; and
 - (g) The facts that explain each delay of repair allowed pursuant to paragraph (DD)(11) of OAC rule 3745-21-09; and
 - (vi) The dates of process unit shutdowns that occurred within the semiannual period.

IV. Reporting Requirements (continued)

3. [OAC rule 3745-21-09(DD)(15)]
LDAR Program Reporting

(a) Each owner or operator of a process unit as described in paragraph (DD)(1) of OAC rule 3745-21-09 shall comply with the reporting requirements specified in paragraphs (DD)(15)(b) to (DD)(15)(d) of OAC rule 3745-21-09.

(b) For compliance tests required under paragraphs (DD)(7)(c) and (DD)(9)(c) of OAC rule 3745-21-09, the requirements of paragraphs (A)(3) and (A)(4) of rule 3745-21-10 of the Administrative Code (pertaining to notification of intent to test) shall be met. The results of such compliance tests shall be reported to the Ohio EPA, Southeast District Office within 30 days after the test date.

(c) The results of compliance tests required under paragraph (DD)(4)(c) of OAC rule 3745-21-09 shall be reported semiannually to the Ohio EPA, Southeast District Office. The semiannual reports shall be submitted by the first day of February and August and shall include information for the preceding semiannual period.

(d) Any semiannual reports required under paragraph (DD)(2)(m) of OAC rule 3745-21-09 may be sent to the Ohio EPA, Southeast District Office.

4. [40 CFR 63.1320(a)]
PET and Polystyrene Affected Sources - Reporting Provisions

Owners and operators using a control or recovery device to comply with 63.1316 shall comply with the applicable reporting provisions specified in 63.1315(a), except that, for the purposes of this paragraph (a), references to group determinations (i.e., total resource effectiveness) do not apply, and owners or operators are not required to comply with 63.113.

5. [40 CFR 63.1335(b)(1)(ii)]
General Record keeping and Reporting Provisions

Reports of start-up, shutdown, and malfunction. For the purposes of this subpart, the semiannual start-up, shutdown, and malfunction reports shall be submitted on the same schedule as the Periodic Reports required under paragraph (e)(6) of 63.1335 instead of being submitted on the schedule specified in 63.10(d)(5)(i). The reports shall include the information specified in 63.10(d)(5)(i).

6. [40 CFR 63.1335(e)]
Reporting and Notification

In addition to the reports and notifications required by subpart A of this part as specified in Table 1 of this subpart, the owner or operator of an affected source shall prepare and submit the reports listed in paragraphs (e)(3) through (e)(8) of 63.1335, as applicable. All reports required by this subpart, and the schedule for their submittal, are listed in Table 9 of this subpart.

7. [40 CFR 63.1335(e)(1)]
Owners and operators shall not be in violation of the reporting requirements of this subpart for failing to submit information required to be included in a specified report if the owner or operator meets the requirements in paragraphs (e)(1)(i) through (e)(1)(iii) of 63.1335. Examples of circumstances where this paragraph may apply include information related to newly-added equipment or emission points, changes in the process, changes in equipment required or utilized for compliance with the requirements of this subpart, or changes in methods or equipment for monitoring, recordkeeping, or reporting.

(i) The information was not known in time for inclusion in the report specified by this subpart;

(ii) The owner or operator has been diligent in obtaining the information; and

(iii) The owner or operator submits a report according to the provisions of paragraphs (e)(1)(iii)(A) through (e)(1)(iii)(C) of 63.1335.

(A) If this subpart expressly provides for supplements to the report in which the information is required, the owner or operator shall submit the information as a supplement to that report. The information shall be submitted no later than 60 days after it is obtained, unless otherwise specified in this subpart.

IV. Reporting Requirements (continued)

(B) If this subpart does not expressly provide for supplements, but the owner or operator must submit a request for revision of an operating permit pursuant to part 70 or part 71, due to circumstances to which the information pertains, the owner or operator shall submit the information with the request for revision to the operating permit.

(C) In any case not addressed by paragraph (e)(1)(iii)(A) or (e)(1)(iii)(B) of this paragraph, the owner or operator shall submit the information with the first Periodic Report, as required by this subpart, which has a submission deadline at least 60 days after the information is obtained.

8. [40 CFR 63.1335(e)(2)]
All reports required under this subpart shall be sent to the Administrator at the appropriate address listed in 63.13. If acceptable to both the Administrator and the owner or operator of an affected source, reports may be submitted on electronic media.
9. [40 CFR 63.1335(e)(3)]
Precompliance Report. Owners or operators of affected sources requesting an extension for compliance; requesting approval to use alternative monitoring parameters, alternative continuous monitoring and record keeping, or alternative controls; requesting approval to use engineering assessment to estimate emissions from a batch emissions episode, as described in 63.1323(b)(6)(i)(C); wishing to establish parameter monitoring levels according to the procedures contained in 63.1334(c) or (d); or requesting approval to incorporate a provision for ceasing to collect monitoring data, during a start-up, shutdown, or malfunction, into the start-up, shutdown, and malfunction plan, when that monitoring equipment would be damaged if it did not cease to collect monitoring data, as permitted under 63.1310(j)(3), shall submit a Precompliance Report according to the schedule described in paragraph (e)(3)(i) of 63.1335. The Precompliance Report shall contain the information specified in paragraphs (e)(3)(ii) through (e)(3)(viii) of 63.1335, as appropriate.
- (i) Submittal dates. The Precompliance Report shall be submitted to the Administrator no later than December 19, 2000. If a Precompliance Report was submitted prior to June 19, 2000 and no changes need to be made to that Precompliance Report, the owner or operator shall re-submit the earlier report or submit notification that the previously submitted report is still valid. Unless the Administrator objects to a request submitted in the Precompliance Report within 45 days after its receipt, the request shall be deemed approved. For new affected sources, the Precompliance Report shall be submitted to the Administrator with the application for approval of construction or reconstruction required in paragraph (b)(2) of 63.1335. Supplements to the Precompliance Report may be submitted as specified in paragraph (e)(3)(ix) of 63.1335.
- (ii) A request for an extension for compliance, as specified in 63.1311(e), may be submitted in the Precompliance Report. The request for a compliance extension shall include the data outlined in 63.6(i)(6)(i)(A), (B), and (D), as required in 63.1311(e)(1).
- (iii) The alternative monitoring parameter information required in paragraph (f) of 63.1335 shall be submitted in the Precompliance Report if, for any emission point, the owner or operator of an affected source seeks to comply through the use of a control technique other than those for which monitoring parameters are specified in this subpart or in subpart G of this part or seeks to comply by monitoring a different parameter than those specified in this subpart or in subpart G of this part.
- (iv) If the affected source seeks to comply using alternative continuous monitoring and recordkeeping as specified in paragraph (g) of 63.1335, the owner or operator shall submit a request for approval in the Precompliance Report.
- (v) The owner or operator shall report the intent to use alternative controls to comply with the provisions of this subpart in the Precompliance Report. The Administrator may deem alternative controls to be equivalent to the controls required by the standard, under the procedures outlined in 63.6(g).
- (vi) If a request for approval to use engineering assessment to estimate emissions from a batch emissions episode, as described in 63.1323(b)(6)(i)(C) is being made, the information required by 63.1323(b)(6)(iii)(B) shall be submitted in the Precompliance Report.

IV. Reporting Requirements (continued)

(vii) If an owner or operator establishes parameter monitoring levels according to the procedures contained in 63.1334(c) or (d), the following information shall be submitted in the Precompliance Report:

(A) Identification of which procedures (i.e., 63.1334(c) or (d)) are to be used; and

(B) A description of how the parameter monitoring level is to be established. If the procedures in 63.1334(c) are to be used, a description of how performance test data will be used shall be included.

(viii) If the owner or operator is requesting approval to incorporate a provision for ceasing to collect monitoring data, during a start-up, shutdown, or malfunction, into the start-up, shutdown, and malfunction plan, when that monitoring equipment would be damaged if it did not cease to collect monitoring data, the information specified in paragraphs (e)(3)(viii)(A) and (B) shall be supplied in the Precompliance Report or in a supplement to the Precompliance Report. The Administrator shall evaluate the supporting documentation and shall approve the request only if, in the Administrator's judgment, the specific monitoring equipment would be damaged by the contemporaneous start-up, shutdown, or malfunction.

(A) Documentation supporting a claim that the monitoring equipment would be damaged by the contemporaneous start-up, shutdown, or malfunction; and

(B) A request to incorporate such a provision for ceasing to collect monitoring data during a start-up, shutdown, or malfunction, into the start-up, shutdown, and malfunction plan.

(ix) Supplements to the Precompliance Report may be submitted as specified in paragraphs (e)(3)(ix)(A) or (e)(3)(ix)(B) of 63.1335. Unless the Administrator objects to a request submitted in a supplement to the Precompliance Report within 45 days after its receipt, the request shall be deemed approved.

(A) Supplements to the Precompliance Report may be submitted to clarify or modify information previously submitted.

(B) Supplements to the Precompliance Report may be submitted to request approval to use alternative monitoring parameters, as specified in paragraph (e)(3)(iii) of 63.1335; to use alternative continuous monitoring and recordkeeping, as specified in paragraph (e)(3)(iv) of 63.1335; to use alternative controls, as specified in paragraph (e)(3)(v) of 63.1335; to use engineering assessment to estimate emissions from a batch emissions episode, as specified in paragraph (e)(3)(vi) of 63.1335; to establish parameter monitoring levels according to the procedures contained in 63.1334(c) or (d), as specified in paragraph (e)(3)(vii) of 63.1335; or to include a provision for ceasing to collect monitoring data during a start-up, shutdown, or malfunction, in the start-up, shutdown, and malfunction plan, when that monitoring equipment would be damaged if it did not cease to collect monitoring data, as specified in paragraph (e)(3)(viii) of 63.1335.

10. [40 CFR 63.1335(e)(4)]

Emissions Averaging Plan. For all existing affected sources using emissions averaging, an Emissions Averaging Plan shall be submitted for approval according to the schedule and procedures described in paragraph (e)(4)(i) of 63.1335. The Emissions Averaging Plan shall contain the information specified in paragraph (e)(4)(ii) of 63.1335, unless the information required in paragraph (e)(4)(ii) of 63.1335 is submitted with an operating permit application. An owner or operator of an affected source who submits an operating permit application instead of an Emissions Averaging Plan shall submit the information specified in paragraph (e)(8) of 63.1335. In addition, a supplement to the Emissions Averaging Plan, as required under paragraph (e)(4)(iii) of 63.1335, is to be submitted whenever additional alternative controls or operating scenarios may be used to comply with this subpart. Updates to the Emissions Averaging Plan shall be submitted in accordance with paragraph (e)(4)(iv) of 63.1335.

(i) Submittal and approval. The Emissions Averaging Plan shall be submitted no later than September 19, 2000, and it is subject to Administrator approval. If an Emissions Averaging Plan was submitted prior to June 19, 2000 and no changes need to be made to that Emissions Averaging Plan, the owner or operator shall re-submit the earlier plan or submit notification that the previously submitted plan is still valid. The Administrator shall determine within 120 days whether the Emissions Averaging Plan submitted presents sufficient information. The Administrator shall either approve the Emissions Averaging Plan, request changes, or request that the owner or operator submit additional information. Once the Administrator receives sufficient information, the Administrator shall approve, disapprove, or request changes to the plan within 120 days.

IV. Reporting Requirements (continued)

(ii) Information required. The Emissions Averaging Plan shall contain the information listed in paragraphs (e)(4)(ii)(A) through (e)(4)(ii)(N) of 63.1335 for all emission points included in an emissions average.

(A) The required information shall include the identification of all emission points in the planned emissions average and, where applicable, notation of whether each storage vessel, continuous process vent, batch process vent, aggregate batch vent stream, and process wastewater stream is a Group 1 or Group 2 emission point, as defined in 63.1312 or as designated under 63.1332 (c)(3) through (c)(5).

(B) The required information shall include the projected emission debits and credits for each emission point and the sum for the emission points involved in the average calculated according to 63.1332. The projected credits shall be greater than or equal to the projected debits, as required under 63.1332(e)(3).

(C) The required information shall include the specific control technology or pollution prevention measure that will be used for each emission point included in the average and date of application or expected date of application.

(D) The required information shall include the specific identification of each emission point affected by a pollution prevention measure. To be considered a pollution prevention measure, the criteria in 63.1332(j)(1) shall be met. If the same pollution prevention measure reduces or eliminates emissions from multiple emission points in the average, the owner or operator shall identify each of these emission points.

(E) The required information shall include a statement that the compliance demonstration, monitoring, inspection, recordkeeping, and reporting provisions in 63.1332 (m), (n), and (o) that are applicable to each emission point in the emissions average will be implemented beginning on or before the date of compliance.

(F) The required information shall include documentation of the data listed in paragraphs (e)(4)(ii)(F)(1) through (e)(4)(ii)(F)(5) of 63.1335 for each storage vessel and continuous process vent subject to 63.1315 included in the average.

(1) The required documentation shall include the values of the parameters used to determine whether the emission point is Group 1 or Group 2. Where TRE index value is used for continuous process vent group determination, the estimated or measured values of the parameters used in the TRE equation in 63.115(d) and the resulting TRE index value shall be submitted.

(2) The required documentation shall include the estimated values of all parameters needed for input to the emission debit and credit calculations in 63.1332(g) and (h). These parameter values shall be specified in the affected source's Emissions Averaging Plan (or operating permit) as enforceable operating conditions. Changes to these parameters shall be reported as required by paragraph (e)(4)(iv) of 63.1335.

(3) The required documentation shall include the estimated percent reduction if a control technology achieving a lower percent reduction than the efficiency of the applicable reference control technology or standard is or will be applied to the emission point.

(4) The required documentation shall include the anticipated nominal efficiency if a control technology achieving a greater percent emission reduction than the efficiency of the reference control technology is or will be applied to the emission point. The procedures in 63.1332(i) shall be followed to apply for a nominal efficiency, and the report specified in paragraph (e)(7)(ii) of 63.1335 shall be submitted with the Emissions Averaging Plan as specified in paragraph (e)(7)(ii)(A) of 63.1335.

IV. Reporting Requirements (continued)

(5) The required documentation shall include the monitoring plan specified in 63.122(b), to include the information specified in 63.120(d)(2)(i) and in either 63.120(d)(2)(ii) or (d)(2)(iii) for each storage vessel controlled with a closed-vent system using a control device other than a flare.

(G) The information specified in paragraph (f) of this section shall be included in the Emissions Averaging Plan for:

(1) Each continuous process vent subject to 63.1315 controlled by a pollution prevention measure or control technique for which monitoring parameters or inspection procedures are not specified in 63.114; and

(2) Each storage vessel controlled by pollution prevention or a control technique other than an internal or external floating roof or a closed vent system with a control device.

(H) The required information shall include documentation of the data listed in paragraphs (e)(4)(ii)(H)(1) through (e)(4)(ii)(H)(5) of 63.1335 for each collection of continuous process vents located in a process section within the affected source subject to 63.1316 (b)(1)(i), (b)(1)(ii), (b)(2)(i), (b)(2)(ii), or (c)(1) included in the average.

(1) For continuous process vents subject to 63.1316(b)(1)(i), the required documentation shall include the values of the parameters used to determine whether the emission point is Group 1 or Group 2. Continuous process vents subject to 63.1316 (b)(1)(ii), (b)(2)(i), (b)(2)(ii), or (c)(1) are considered Group 1 emission points for purposes of emissions averaging, as specified in 63.1332(c)(5).

(2) The required documentation shall include the estimated values of all parameters needed for input to the emission debit and credit calculations in 63.1332(g) and (h). These parameter values shall be specified in the affected source's Emissions Averaging Plan (or operating permit) as enforceable operating conditions. Changes to these parameters shall be reported as required by paragraph (e)(4)(iv) of 63.1335.

(3) For process sections generating debits or credits by comparing actual emissions expressed as kg HAP emissions per Mg of product to the applicable standard, the required documentation shall include the actual emission level expressed as kg HAP emissions per Mg of product.

(4) For process sections using combustion control devices, the required documentation shall include the estimated percent reduction if a control technology achieving a lower percent reduction than the efficiency of the applicable reference control technology or standard is or will be applied to the emission point.

(5) For process sections using combustion control devices, the required documentation shall include the anticipated nominal efficiency if a control technology achieving a greater percent emission reduction than the efficiency of the reference control technology is or will be applied to the emission point. The procedures in 63.1332(i) shall be followed to apply for a nominal efficiency.

(I) For each pollution prevention measure or control device used to reduce air emissions of organic HAP from each collection of continuous process vents located in a process section within the affected source subject to 63.1316 (b)(1)(i), (b)(1)(ii), (b)(2)(i), (b)(2)(ii), or (c)(1) and for which no monitoring parameters or inspection procedures are specified in 63.114, the information specified in paragraph (f) of 63.1335, Alternative Monitoring Parameters, shall be included in the Emissions Averaging Plan.

(J) The required information shall include documentation of the data listed in paragraphs (e)(4)(ii)(J)(1) through (e)(4)(ii)(J)(3) of 63.1335 for each batch process vent and aggregate batch vent stream included in the average.

(1) The required documentation shall include the values of the parameters used to determine whether the emission point is Group 1 or Group 2.

IV. Reporting Requirements (continued)

(2) The required documentation shall include the estimated values of all parameters needed for input to the emission debit and credit calculations in 63.1332(g) and (h). These parameter values shall be specified in the affected source's Emissions Averaging Plan (or operating permit) as enforceable operating conditions. Changes to these parameters shall be reported as required by paragraph (e)(4)(iv) of 63.1335.

(3) For batch process vents, the required documentation shall include the estimated percent reduction for the batch cycle. For aggregate batch vent streams, the required documentation shall include the estimated percent reduction achieved on a continuous basis.

(K) For each pollution prevention measure or control device used to reduce air emissions of organic HAP from batch process vents or aggregate batch vent streams and for which no monitoring parameters or inspection procedures are specified in 63.1324, the information specified in paragraph (f) of 63.1335, Alternative Monitoring Parameters, shall be included in the Emissions Averaging Plan.

(L) The required information shall include documentation of the data listed in paragraphs (e)(4)(ii)(L)(1) through (e)(4)(ii)(L)(4) of 63.1335 for each process wastewater stream included in the average.

(1) The required documentation shall include the data used to determine whether the wastewater stream is a Group 1 or Group 2 wastewater stream.

(2) The required documentation shall include the estimated values of all parameters needed for input to the wastewater emission credit and debit calculations in 63.1332(g) and (h). These parameter values shall be specified in the affected source's Emissions Averaging Plan (or operating permit) as enforceable operating conditions. Changes to these parameters shall be reported as required by paragraph (e)(4)(iv) of 63.1335.

(3) The required documentation shall include the estimated percent reduction if:

(i) A control technology that achieves an emission reduction less than or equal to the emission reduction that would otherwise have been achieved by a steam stripper designed to the specifications found in 63.138(g) is or will be applied to the wastewater stream;

(ii) A control technology achieving less than or equal to 95 percent emission reduction is or will be applied to the vapor stream(s) vented and collected from the treatment processes; or

(iii) A pollution prevention measure is or will be applied.

(4) The required documentation shall include the anticipated nominal efficiency if the owner or operator plans to apply for a nominal efficiency under 63.1332(i). A nominal efficiency shall be applied for if:

(i) A control technology that achieves an emission reduction greater than the emission reduction that would have been achieved by a steam stripper designed to the specifications found in 63.138(g), is or will be applied to the wastewater stream; or

(ii) A control technology achieving greater than 95 percent emission reduction is or will be applied to the vapor stream(s) vented and collected from the treatment processes.

(M) For each pollution prevention measure, treatment process, or control device used to reduce air emissions of organic HAP from wastewater and for which no monitoring parameters or inspection procedures are specified in 63.143, the information specified in paragraph (f) of 63.1335, Alternative Monitoring Parameters, shall be included in the Emissions Averaging Plan.

IV. Reporting Requirements (continued)

(N) The required information shall include documentation of the data required by 63.1332(k). The documentation shall demonstrate that the emissions from the emission points proposed to be included in the average will not result in greater hazard or, at the option of the Administrator, greater risk to human health or the environment than if the emission points were not included in an emissions average.

(iii) Supplement to Emissions Averaging Plan. The owner or operator required to prepare an Emissions Averaging Plan under paragraph (e)(4) of 63.1335 shall also prepare a supplement to the Emissions Averaging Plan for any additional alternative controls or operating scenarios that may be used to achieve compliance.

(iv) Updates to Emissions Averaging Plan. The owner or operator of an affected source required to submit an Emissions Averaging Plan under paragraph (e)(4) of 63.1335 shall also submit written updates of the Emissions Averaging Plan to the Administrator for approval under the circumstances described in paragraphs (e)(4)(iv)(A) through (e)(4)(iv)(C) of 63.1335 unless the relevant information has been included and submitted in an operating permit application or amendment.

(A) The owner or operator who plans to make a change listed in either paragraph (e)(4)(iv)(A)(1) or (e)(4)(iv)(A)(2) of 63.1335 shall submit an Emissions Averaging Plan update at least 120 days prior to making the change.

(1) An Emissions Averaging Plan update shall be submitted whenever an owner or operator elects to achieve compliance with the emissions averaging provisions in 63.1332 by using a control technique other than that specified in the Emissions Averaging Plan or plans to monitor a different parameter or operate a control device in a manner other than that specified in the Emissions Averaging Plan.

(2) An Emissions Averaging Plan update shall be submitted whenever an emission point or a TPPU is added to an existing affected source and is planned to be included in an emissions average, or whenever an emission point not included in the emissions average described in the Emissions Averaging Plan is to be added to an emissions average. The information in paragraph (e)(4) of 63.1335 shall be updated to include the additional emission point.

(B) The owner or operator who has made a change as defined in paragraph (e)(4)(iv)(B)(1) or (e)(4)(iv)(B)(2) of 63.1335 shall submit an Emissions Averaging Plan update within 90 days after the information regarding the change is known to the affected source. The update may be submitted in the next quarterly periodic report if the change is made after the date the Notification of Compliance Status is due.

(1) An Emissions Averaging Plan update shall be submitted whenever a process change is made such that the group status of any emission point in an emissions average changes.

(2) An Emissions Averaging Plan update shall be submitted whenever a value of a parameter in the emission credit or debit equations in 63.1332 (g) or (h) changes such that it is below the minimum or above the maximum established level specified in the Emissions Averaging Plan and causes a decrease in the projected credits or an increase in the projected debits.

(C) The Administrator shall approve or request changes to the Emissions Averaging Plan update within 120 days of receipt of sufficient information regarding the change for emission points included in emissions averages.

IV. Reporting Requirements (continued)

11. [40 CFR 63.1335(e)(5)]
Notification of Compliance Status. For existing and new affected sources, a Notification of Compliance Status shall be submitted. For equipment leaks subject to 63.1331, the owner or operator shall submit the information required in 63.182(c) in the Notification of Compliance Status within 150 days after the first applicable compliance date for equipment leaks in the affected source, and an update shall be provided in the first Periodic Report that is due at least 150 days after each subsequent applicable compliance date for equipment leaks in the affected source. For all other emission points, including heat exchange systems, the Notification of Compliance Status shall contain the information listed in paragraphs (e)(5)(i) through (e)(5)(xi) of 63.1335, as applicable, and shall be submitted no later than 150 days after the compliance dates specified in this subpart.
- (i) The results of any emission point group determinations, process section applicability determinations, performance tests, inspections, any other information used to demonstrate compliance, values of monitored parameters established during performance tests, and any other information required to be included in the Notification of Compliance Status under 63.1311(m), 63.122, and 63.1314 for storage vessels, 63.117 for continuous process vents, 63.146 for process wastewater, 63.1316 through 63.1320 for continuous process vents subject to 63.1316, 63.1327 for batch process vents, 63.1329 for process contact cooling towers, and 63.1332 for emission points included in an emissions average. In addition, the owner or operator of an affected source shall comply with paragraphs (e)(5)(i)(A) and (e)(5)(i)(B) of 63.1335.
- (A) For performance tests, group determinations, and process section applicability determinations that are based on measurements, the Notification of Compliance Status shall include one complete test report, as described in paragraph (e)(5)(i)(B) of 63.1335, for each test method used for a particular kind of emission point. For additional tests performed for the same kind of emission point using the same method, the results and any other information, from the test report, that is requested on a case-by-case basis by the Administrator shall be submitted, but a complete test report is not required.
- (B) A complete test report shall include a brief process description, sampling site description, description of sampling and analysis procedures and any modifications to standard procedures, quality assurance procedures, record of operating conditions during the test, record of preparation of standards, record of calibrations, raw data sheets for field sampling, raw data sheets for field and laboratory analyses, documentation of calculations, and any other information required by the test method.
- (ii) For each monitored parameter for which a maximum or minimum level is required to be established under 63.114(e) for continuous process vents, 63.1324 for batch process vents and aggregate batch vent streams, 63.143(f) for process wastewater, 63.1332(m) for emission points in emissions averages, paragraph (e)(8) of 63.1335, or paragraph (f) of 63.1335, the Notification of Compliance Status shall contain the information specified in paragraphs (e)(5)(ii)(A) through (e)(5)(ii)(D) of 63.1335, unless this information has been established and provided in the operating permit application. Further, as described in 63.1314(a)(9), for those storage vessels for which the monitoring plan required by 63.1314(a)(9) specifies compliance with the provisions of 63.1334, the owner or operator shall provide the information specified in paragraphs (e)(5)(ii)(A) through (e)(5)(ii)(D) of 63.1335 for each monitored parameter, unless this information has been established and provided in the operating permit application. For those storage vessels for which the monitoring plan required by 63.1314(a)(9) does not require compliance with the provisions of 63.1334, the owner or operator shall provide the information specified in 63.120(d)(3) as part of the Notification of Compliance Status, unless this information has been established and provided in the operating permit application.
- (A) The required information shall include the specific maximum or minimum level of the monitored parameter(s) for each emission point.
- (B) The required information shall include the rationale for the specific maximum or minimum level for each parameter for each emission point, including any data and calculations used to develop the level and a description of why the level indicates proper operation of the control device.

IV. Reporting Requirements (continued)

(C) The required information shall include a definition of the affected source's operating day, as specified in paragraph (d)(3)(ii) of 63.1335, for purposes of determining daily average values or batch cycle daily average values of monitored parameters.

(D) For batch process vents, the required information shall include a definition of each batch cycle that requires the control of one or more batch emission episodes during the cycle, as specified in 63.1325(c)(2) and 63.1334(b)(3)(iii).

(iii) For emission points included in an emissions average, the Notification of Compliance Status shall contain the values of all parameters needed for input to the emission credit and debit equations in 63.1332 (g) and (h), calculated or measured according to the procedures in 63.1332 (g) and (h), and the resulting calculation of credits and debits for the first quarter of the year. The first quarter begins on the compliance date specified.

(iv) The determination of applicability for flexible operation units as specified in 63.1310(f).

(v) The parameter monitoring levels for flexible operation units, and the basis on which these levels were selected, or a demonstration that these levels are appropriate at all times, as specified in 63.1310(f)(7).

(vi) The results for each predominant use determination made under 63.1310(g), for storage vessels assigned to an affected source subject to this subpart.

(vii) The results for each predominant use determination made under 63.1310(h), for recovery operations equipment assigned to an affected source subject to this subpart.

(viii) For owners or operators of Group 2 batch process vents establishing a batch mass input limitation as specified in 63.1325(g), the affected source's operating year for purposes of determining compliance with the batch mass input limitation.

(ix) If any emission point is subject to this subpart and to other standards as specified in 63.1311, and if the provisions of 63.1311 allow the owner or operator to choose which testing, monitoring, reporting, and recordkeeping provisions will be followed, then the Notification of Compliance Status shall indicate which rule's requirements will be followed for testing, monitoring, reporting, and record keeping.

(x) An owner or operator who transfers a Group 1 wastewater stream or residual removed from a Group 1 wastewater stream for treatment pursuant to 63.132(g) shall include in the Notification of Compliance Status the name and location of the transferee and a description of the Group 1 wastewater stream or residual sent to the treatment facility.

(xi) An owner or operator complying with paragraph (h)(1) of 63.1335 shall notify the Administrator of the election to comply with paragraph (h)(1) of 63.1335 as part of the Notification of Compliance Status or as part of the appropriate Periodic Report as specified in paragraph (e)(6)(ix) of 63.1335.

12. [40 CFR 63.1335(e)(6)]

Periodic Reports. For existing and new affected sources, the owner or operator shall submit Periodic Reports as specified in paragraphs (e)(6)(i) through (e)(6)(xi) of 63.1335. In addition, for equipment leaks subject to 63.1331, the owner or operator shall submit the information specified in 63.182(d) under the conditions listed in 63.182(d), and for heat exchange systems subject to 63.1328, the owner or operator shall submit the information specified in 63.104(f)(2) as part of the Periodic Report required by this paragraph (e)(6). Section 63.1334 shall govern the use of monitoring data to determine compliance for Group 1 emissions points and for Group 1 and Group 2 emission points included in emissions averages with the following exception: As discussed in 63.1314(a)(9), for storage vessels to which the provisions of 63.1334 do not apply, as specified in the monitoring plan required by 63.120(d)(2), the owner or operator is required to comply with the requirements set out in the monitoring plan, and monitoring records may be used to determine compliance.

(i) Except as specified in paragraphs (e)(6)(xi) and (e)(6)(xii) of 63.1335, a report containing the information in paragraph (e)(6)(ii) of 63.1335 or containing the information in paragraphs (e)(6)(iii) through (e)(6)(x) of 63.1335, as appropriate, shall be submitted semiannually no later than 60 days after the end of each 6-month period. The first report shall be submitted no later than 240 days after the date the Notification of Compliance Status is due and shall cover the 6-month period beginning on the date the Notification of Compliance Status is due.

IV. Reporting Requirements (continued)

(ii) If none of the compliance exceptions specified in paragraphs (e)(6)(iii) through (e)(6)(ix) of 63.1335 occurred during the 6-month period, the Periodic Report required by paragraph (e)(6)(i) of 63.1335 shall be a statement that there were no compliance exceptions as described in this paragraph for the 6-month period covered by that report and no activities specified in paragraphs (e)(6)(iii) through (e)(6)(ix) of 63.1335 occurred during the 6-month period covered by that report.

(iii) For an owner or operator of an affected source complying with the provisions of 63.1314 through 63.1330 for any emission point or process section, Periodic Reports shall include:

(A) All information specified in 63.122 for storage vessels; 63.117 and 63.118 and 63.1320 for continuous process vents, as applicable; 63.1327 for batch process vents and aggregate batch vent streams; 63.104 for heat exchange systems; and 63.146 for process wastewater;

(B) The daily average values or batch cycle daily average values of monitored parameters for both excused excursions, as defined in 63.1334(g), and unexcused excursions, as defined in 63.1334(f). For excursions caused by lack of monitoring data, the start-time and duration of periods when monitoring data were not collected shall be specified.

(C) Paragraph (e)(6)(iii)(C) is reserved.

(D) The information in paragraphs (e)(6)(iii)(D)(1) through (e)(6)(iii)(D)(4) of 63.1335, as applicable:

(1) Any supplements to the Emissions Averaging Plan, as required in paragraph (e)(4)(iii) of 63.1335;

(2) Notification if a process change is made such that the group status of any emission point changes from Group 2 to Group 1. The owner or operator is not required to submit a notification of a process change if that process change caused the group status of an emission point to change from Group 1 to Group 2. However, until the owner or operator notifies the Administrator that the group status of an emission point has changed from Group 1 to Group 2, the owner or operator is required to continue to comply with the Group 1 requirements for that emission point. This notification may be submitted at any time.

(3) Notification if one or more emission point(s) (other than equipment leaks) or one or more TPPU is added to an affected source. The owner or operator shall submit the information contained in paragraphs (e)(6)(iii)(D)(3)(i) through (e)(6)(iii)(D)(3)(ii) of 63.1335:

(i) A description of the addition to the affected source; and

(ii) Notification of the group status of the additional emission point or all emission points in the TPPU.

(4) For process wastewater streams sent for treatment pursuant to 63.132(g), reports of changes in the identity of the treatment facility or transferee.

(E) The information in paragraph (b)(1)(ii) of 63.1335 for reports of start-up, shutdown, and malfunction.

(iv) For each batch process vent with a batch mass input limitation, every second Periodic Report shall include the mass of HAP or material input to the batch unit operation during the 12-month period covered by the preceding and current Periodic Reports, and a statement of whether the batch process vent was in or out of compliance with the batch mass input limitation.

IV. Reporting Requirements (continued)

(v) If any performance tests are reported in a Periodic Report, the following information shall be included:

(A) One complete test report shall be submitted for each test method used for a particular kind of emission point tested. A complete test report shall contain the information specified in paragraph (e)(5)(i)(B) of 63.1335.

(B) For additional tests performed for the same kind of emission point using the same method, results and any other information, pertaining to the performance test, that is requested on a case-by-case basis by the Administrator shall be submitted, but a complete test report is not required.

(vi) Notification of a change in the primary product of a TPPU, in accordance with the provisions in 63.1310(f). This includes a change in primary product from one thermoplastic product to either another thermoplastic product or to a non-thermoplastic product.

(vii) The results for each change made to a predominant use determination made under 63.1310(g) for a storage vessel that is assigned to an affected source subject to this subpart after the change.

(viii) The Periodic Report shall include the results for each change made to a predominant use determination made under 63.1310(h) for recovery operations equipment assigned to an affected source subject to this subpart after the change.

(ix) An owner or operator complying with paragraph (h)(1) of 63.1335 shall notify the Administrator of the election to comply with paragraph (h)(1) of 63.1335 as part of the Periodic Report or as part of the Notification of Compliance Status as specified in paragraph (e)(5)(xi) of 63.1335.

(x) An owner or operator electing not to retain daily average or batch cycle daily average values under paragraph (h)(2) of 63.1335 shall notify the Administrator as specified in paragraph (h)(2)(i) of 63.1335.

(xi) The owner or operator of an affected source shall submit quarterly reports for all emission points included in an emissions average as specified in paragraphs (e)(6)(xi)(A) through (e)(6)(xi)(C) of 63.1335.

(A) The quarterly reports shall be submitted no later than 60 days after the end of each quarter. The first report shall be submitted with the Notification of Compliance Status no later than 150 days after the compliance date.

(B) The quarterly reports shall include the information specified in paragraphs (e)(6)(xi)(B)(1) through (e)(6)(xi)(B)(7) of 63.1335 for all emission points included in an emissions average.

(1) The credits and debits calculated each month during the quarter;

(2) A demonstration that debits calculated for the quarter are not more than 1.30 times the credits calculated for the quarter, as required under 63.1332(e)(4);

(3) The values of any inputs to the debit and credit equations in 63.1332(g) and (h) that change from month to month during the quarter or that have changed since the previous quarter;

(4) Results of any performance tests conducted during the reporting period including one complete report for each test method used for a particular kind of emission point as described in paragraph (e)(6)(v) of 63.1335;

(5) Reports of daily average (or batch cycle daily average) values of monitored parameters for excursions as defined in 63.1334(f);

(6) For excursions caused by lack of monitoring data, the duration of periods when monitoring data were not collected shall be specified; and

(7) Any other information the affected source is required to report under the operating permit or Emissions Averaging Plan for the affected source.

IV. Reporting Requirements (continued)

(C) Every fourth quarterly report shall include the following:

(1) A demonstration that annual credits are greater than or equal to annual debits as required by 63.1332(e)(3); and

(2) A certification of compliance with all the emissions averaging provisions in 63.1332.

(xii) The owner or operator of an affected source shall submit quarterly reports for particular emission points and process sections not included in an emissions average as specified in paragraphs (e)(6)(xii)(A) through (e)(6)(xii)(D) of 63.1335.

(A) The owner or operator of an affected source shall submit quarterly reports for a period of 1 year for an emission point or process section that is not included in an emissions average if:

(1) A control or recovery device for a particular emission point or process section has more excursions, as defined in 63.1334(f), than the number of excused excursions allowed under 63.1334(g) for a semiannual reporting period; or

(2) The Administrator requests that the owner or operator submit quarterly reports for the emission point or process section.

(B) The quarterly reports shall include all information specified in paragraphs (e)(6)(iii) through (e)(6)(ix) of 63.1335 applicable to the emission point or process section for which quarterly reporting is required under paragraph (e)(6)(xii)(A) of 63.1335. Information applicable to other emission points within the affected source shall be submitted in the semiannual reports required under paragraph (e)(6)(i) of 63.1335.

(C) Quarterly reports shall be submitted no later than 60 days after the end of each quarter.

(D) After quarterly reports have been submitted for an emission point for 1 year without more excursions occurring (during that year) than the number of excused excursions allowed under 63.1334(g), the owner or operator may return to semiannual reporting for the emission point or process section.

13. [40 CFR 63.1335(e)(7)]

Other reports. Other reports shall be submitted as specified in paragraphs (e)(7)(i) through (e)(7)(iv) of 63.1335.

(i) For storage vessels, the notifications of inspections required by 63.1314 shall be submitted as specified in 63.122 (h)(1) and (h)(2).

(ii) For owners or operators of affected sources required to request approval for a nominal control efficiency for use in calculating credits for an emissions average, the information specified in 63.1332(i) shall be submitted as specified in paragraph (e)(7)(ii)(A) or (B) of 63.1335, as appropriate.

(A) If use of a nominal control efficiency is part of the initial Emissions Averaging Plan described in paragraph (e)(4)(ii) of 63.1335, the information shall be submitted with the Emissions Averaging Plan.

(B) If an owner or operator elects to use a nominal control efficiency after submittal of the initial Emissions Averaging Plan as described in paragraph (e)(4)(ii) of 63.1335, the information shall be submitted at the discretion of the owner or operator.

(iii) When the conditions of 63.1310(f)(3)(iii), 63.1310(f)(9), or 63.1310(f)(10)(iii) are met, reports of changes to the primary product for a TPPU or process unit as required by 63.1310(f)(3)(iii), 63.1310(f)(9), or 63.1310(f)(10)(iii)(C), respectively, shall be submitted.

(iv) Owners or operators of TPPU or emission points (other than equipment leak components subject to 63.1331) that are subject to 63.1310(i)(1) or (i)(2) shall submit a report as specified in paragraphs (e)(7)(iv)(A) and (B) of 63.1335.

IV. Reporting Requirements (continued)

(A) Reports shall include:

- (1) A description of the process change or addition, as appropriate;
- (2) The planned start-up date and the appropriate compliance date, according to 63.1310(i)(1) or (2); and
- (3) Identification of the group status of emission points (except equipment leak components subject to 63.1331) specified in paragraphs (e)(7)(iv)(A)(3)(i) through (e)(7)(iv)(A)(3)(iii) of 63.1335, as applicable.
 - (i) All the emission points in the added TPPU as described in 63.1310(i)(1).
 - (ii) All the emission points in an affected source designated as a new affected source under 63.1310(i)(2)(i).
 - (iii) All the added or created emission points as described in 63.1310(i)(2)(ii) or (i)(2)(iii).
- (4) If the owner or operator wishes to request approval to use alternative monitoring parameters, alternative continuous monitoring or recordkeeping, alternative controls, engineering assessment to estimate emissions from a batch emissions episode, or wishes to establish parameter monitoring levels according to the procedures contained in 63.1334(c) or (d), a Precompliance Report shall be submitted in accordance with paragraph (e)(7)(iv)(B) of 63.1335.

(B) Reports shall be submitted as specified in paragraphs (e)(7)(iv)(B)(1) through (e)(7)(iv)(B)(3) of 63.1335, as appropriate.

- (1) Owners or operators of an added TPPU subject to 63.1310(i)(1) shall submit a report no later than 180 days prior to the compliance date for the TPPU.
- (2) Owners or operators of an affected source designated as a new affected source under 63.1310(i)(2)(i) shall submit a report no later than 180 days prior to the compliance date for the affected source.
- (3) Owners or operators of any emission point (other than equipment leak components subject to 63.1331) subject to 63.1310(i)(2)(ii) or (i)(2)(iii) shall submit a report no later than 180 days prior to the compliance date for those emission points.

14. [40 CFR 63.1335(e)(8)]
Operating permit application. An owner or operator who submits an operating permit application instead of an Emissions Averaging Plan or a Precompliance Report shall include the following information with the operating permit application:

- (i) The information specified in paragraph (e)(4) of 63.1335 for points included in an emissions average; and
- (ii) The information specified in paragraph (e)(3) of 63.1335, Precompliance Report, as applicable.

15. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions not representative of normal operations were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

16. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install #06-4863, issued on October 2, 1996: sections A.IV.1 through A.IV.15. The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

V. Testing Requirements

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

V. Testing Requirements (continued)

1.a Emission Limitation:

Total, point source, VOC emissions shall not exceed 2.12 lbs/hr and 9.1 tpy.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation may be demonstrated by multiplying the average hourly polystyrene production rate (tons/hr) in section A.III.63.c by the permittee-supplied VOC emission factor of 0.06057 pound per ton of product to obtain the total, point source, VOC emissions, in lbs/hr. The emission factor shall be updated whenever additional testing is performed.

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the permittee-supplied VOC emission factor of 0.06057 pound per ton of product, and by 0.0005 ton/lb to obtain the annual point source VOC emissions, in tpy.

1.b Emission Limitation:

Total, fugitive, VOC emissions shall not exceed 0.94 lb/hr and 4.1 tpy.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation may be demonstrated by multiplying the average hourly polystyrene production rate (tons/hr) in section A.III.63.c by the permittee-supplied VOC emission factor of 0.02685 pound per ton of product (Chevron Air Emission Inventory Report, Radian Corporation 1995) to obtain the total, fugitive, VOC emissions, in lbs/hr.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the permittee-supplied VOC emission factor of 0.02685 pound per ton of product, and by 0.0005 ton/lb to obtain the annual fugitive VOC emissions, in tpy.

1.c Emission Limitation:

Styrene emissions (point source and fugitive) shall not exceed 2.20 lbs/hr and 9.7 tpy.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation may be demonstrated by multiplying the average hourly polystyrene production rate (tons/hr) in section A.III.63.c by the permittee-supplied styrene emission factor of 0.06285 pound per ton of product (Chevron Air Emission Inventory Report, Radian Corporation 1995) to obtain the styrene emissions, in lbs/hr.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the permittee-supplied styrene emission factor of 0.06285 pound per ton of product, and by 0.0005 ton/lb to obtain the annual styrene emissions, in tpy.

V. Testing Requirements (continued)

1.d Emission Limitation:

Toluene emissions (point source and fugitive) shall not exceed 0.49 lb/hr and 2.1 tpy.

Applicable Compliance Method:

Compliance with the lb/hr emission limitation may be demonstrated by multiplying the average hourly polystyrene production rate (tons/hr) in section A.III.63.c by the permittee-supplied toluene emission factor of 0.014 pound per ton of product (Chevron Air Emission Inventory Report, Radian Corporation 1995) to obtain the toluene emissions, in lb/hr.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the permittee-supplied toluene emission factor of 0.014 pound per ton of product, and by 0.0005 ton/lb to obtain the annual toluene emissions, in tpy.

1.e Emission Limitation:

Cumene emissions (point source and fugitive) shall not exceed 0.18 lb/hr and 0.8 tpy.

Applicable Compliance Method:

Compliance with the lb/hr emission limitation may be demonstrated by multiplying the average hourly polystyrene production rate (tons/hr) in section A.III.63.c by the permittee-supplied cumene emission factor of 0.00514 pound per ton of product (Chevron Air Emission Inventory Report, Radian Corporation 1995) to obtain the cumene emissions, in lb/hr.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the permittee-supplied cumene emission factor of 0.00514 pound per ton of product, and by 0.0005 ton/lb to obtain the annual cumene emissions, in tpy.

1.f Emission Limitation:

Ethylbenzene emissions (fugitive) shall not exceed 0.002 lb/hr and 0.01 tpy.

Applicable Compliance Method:

Compliance with the lb/hr emission limitation may be demonstrated by multiplying the average hourly polystyrene production rate (tons/hr) in section A.III.63.c by the permittee-supplied ethylbenzene emission factor of 0.000057 pound per ton of product (Chevron Air Emission Inventory Report, Radian Corporation 1995) to obtain the ethylbenzene emissions, in lb/hr.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the permittee-supplied ethylbenzene emission factor of 0.000057 pound per ton of product, and by 0.0005 ton/lb to obtain the annual ethylbenzene emissions, in tpy.

1.g Emission Limitation:

Xylene emissions (fugitive) shall not exceed 0.03 lb/hr and 0.11 tpy.

Applicable Compliance Method:

Compliance with the lb/hr emission limitation may be demonstrated by multiplying the average hourly polystyrene production rate (tons/hr) in section A.III.63.c by the permittee-supplied xylene emission factor of 0.00085 pound per ton of product (Chevron Air Emission Inventory Report, Radian Corporation 1995) to obtain the xylene emissions, in lb/hr.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the permittee-supplied xylene emission factor of 0.00085 pound per ton of product, and by 0.0005 ton/lb to obtain the annual xylene emissions, in tpy.

V. Testing Requirements (continued)

1.h Emission Limitation:

PE shall not exceed 8.89 lbs/hr and 38.9 tpy.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated through emission testing performed in accordance with section A.V.2.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the emissions unit-specific PE emission factor, in pound of PE per ton of product, established during the most recent emission test, and by 0.0005 ton/lb to obtain the annual particulate emissions, in tpy.

1.i Emission Limitation:

NOx emissions shall not exceed 7.80 lbs/hr and 34.2 tpy.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated through emission testing performed in accordance with section A.V.2.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the emissions unit-specific NOx emission factor, in pound of NOx per ton of product, established during the most recent emission test, and by 0.0005 ton/lb to obtain the annual NOx emissions, in tpy.

1.j Emission Limitation:

CO emissions shall not exceed 1.02 lbs/hr and 4.5 tpy.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated through emission testing performed in accordance with section A.V.2.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the emissions unit-specific CO emission factor, in pound of CO per ton of product, established during the most recent emission test, and by 0.0005 ton/lb to obtain the annual CO emissions, in tpy.

1.k Emission Limitation:

SO2 emissions shall not exceed 3.37 lbs/hr and 14.8 tpy.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated through emission testing performed in accordance with section A.V.2.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the emissions unit-specific SO2 emission factor, in pound of SO2 per ton of product, established during the most recent emission test, and by 0.0005 ton/lb to obtain the annual SO2 emissions, in tpy.

V. Testing Requirements (continued)

1.l Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

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

1.m [Emission Limitation: 40 CFR 63.1316(c)(1)(iii)(A)] [Applicable Compliance Method: 40 CFR 63.1318(a)]

Emission Limitation:

The permittee shall reduce the HAP or TOC emissions in a combustion device to achieve 98 weight percent reduction or to achieve a concentration of 20 parts per million by volume (ppmv) on a dry basis, whichever is less stringent. If the permittee elects to comply with the 20 ppmv standard, the concentration shall include a correction to 3 percent oxygen only when supplemental combustion air is used to combust the emissions. Compliance may be based on either organic HAP or TOC.

Applicable Compliance Method:

PET and Polystyrene Affected Sources - Testing and Compliance Demonstration Provisions

Continuous process vents using a control or recovery device to comply with 63.1316 shall comply with the applicable testing and compliance provisions for continuous process vents specified in 63.1315(a) except that, for purposes of this paragraph (a), references to group determinations (i.e., total resource effectiveness) do not apply and owners or operators are not required to comply with 63.113.

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. Emission testing for PE, NO_x, CO, and SO₂ shall be conducted within 6 months after the effective date of this permit, while emissions units P001 and P003 are in operation. Emission testing for PE and NO_x shall also be performed within 6 months prior to permit expiration, while emissions units P001 and P003 are in operation.

b. The emission testing shall be conducted to demonstrate compliance with the mass emission limitations for PE, NO_x, CO, and SO₂.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate: for PE, Methods 1 through 5 of 40 CFR Part 60, Appendix A; for NO_x, Methods 1 through 4 and 7 of 40 CFR Part 60, Appendix A; for CO, Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A; and for SO₂, Methods 1 through 4 and 6 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The tests shall be conducted while emissions units P001 and P003 are operating at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Southeast District Office.

V. Testing Requirements (continued)

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

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

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

3. [40 CFR 63.1333(a)] Additional Requirements for Performance Testing

Performance testing shall be conducted in accordance with 63.7(a)(1), (a)(3), (d), (e)(1), (e)(2), (e)(4), (g), and (h), with the exceptions specified in paragraphs (a)(1) through (a)(5) of 63.1333 and the additions specified in paragraphs (b) through (d) of 63.1333. Sections 63.1314 through 63.1330 also contain specific testing requirements.

(1) Performance tests shall be conducted according to the provisions of 63.7(e)(1) and (e)(2), except that performance tests shall be conducted at maximum representative operating conditions achievable during one of the time periods described in paragraph (a)(1)(i) of 63.1333, without causing any of the situations described in paragraph (a)(1)(ii) of 63.1333 to occur.

(i) The 6-month period that ends 2 months before the Notification of Compliance Status is due, according to 63.1335(e)(5); or the 6-month period that begins 3 months before the performance test and ends 3 months after the performance test.

(ii) Causing damage to equipment; necessitating that the owner or operator make product that does not meet an existing specification for sale to a customer; or necessitating that the owner or operator make product in excess of demand.

(2) The requirements in 63.1335(e)(5) shall apply instead of the references in 63.7(g) to the Notification of Compliance Status requirements in 63.9(h).

(3) Because the site-specific test plans in 63.7(c)(3) are not required, 63.7(h)(4)(ii) is not applicable.

(4) The owner or operator shall notify the Administrator of the intention to conduct a performance test at least 30 days before the performance test is scheduled to allow the Administrator the opportunity to have an observer present during the test. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator by mutual agreement.

(5) Performance tests shall be performed no later than 150 days after the compliance dates specified in this subpart (i.e., in time for the results to be included in the Notification of Compliance Status), rather than according to the time periods in 63.7(a)(2) of subpart A of this part.

V. Testing Requirements (continued)

4. [40 CFR 63.1333(b)]
Each owner or operator of an existing affected source producing MBS complying with 63.1315(b)(2) shall determine compliance with the mass emission per mass product standard by using Equation 49 of this subpart. When determining E_i , when the provisions of 63.116(c)(4) specify that Method 18, 40 CFR part 60, appendix A, shall be used, Method 18 or Method 25A, 40 CFR part 60, appendix A, may be used for the purposes of this subpart. The use of Method 25A, 40 CFR part 60, appendix A, shall conform with the requirements in paragraphs (b)(1) and (b)(2) of 63.1333.
5. [40 CFR 63.1333(c)]
The owner or operator of an affected source, complying with 63.1322(a)(3) shall determine compliance with the percent reduction requirement using Equation 50 of this subpart.
6. [40 CFR 63.1333(d)]
Data shall be reduced in accordance with the EPA approved methods specified in the applicable subpart or, if other test methods are used, the data and methods shall be validated according to the protocol in Method 301 of appendix A of this part.
7. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install #06-4863, issued on October 2, 1996: sections A.V.1 through A.V.6. The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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 - Terms and Conditions for Emissions Units

Emissions Unit ID: Emergency Diesel Generator (P002)
Activity Description: Emergency Diesel Generator

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
13.5 mmBtu emergency diesel generator	OAC rule 3745-31-05(A)(3) (PTI 06-4371)	Particulate emissions shall not exceed 0.63 lb/hr.
		Sulfur dioxide emissions shall not exceed 3.0 lbs/hr.
		Nitrogen oxides emissions shall not exceed 70 lbs/hr.
		Carbon monoxide emissions shall not exceed 7.6 lbs/hr.
		The requirements of this rule also include compliance with the requirements of 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 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-11(B)(5)(a)	See A.I.2.a below.
	OAC rule 3745-18-06(G)	See A.II.1 below.
	OAC rule 3745-31-05(D) (PTI 06-4371)	See A.II.1 below.

2. Additional Terms and Conditions

- The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

II. Operational Restrictions

- The maximum annual operating rate for this emissions unit shall not exceed 624 hours, based upon a rolling, 12-month summation of the operating hours.
- The maximum sulfur content of the diesel fuel burned in this emissions unit shall not exceed 0.05% by weight.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following for this emissions unit:
 - a. the operating hours for each month; and
 - b. the rolling, 12-month summation of the operating hours.
2. For each day during which the permittee burns a fuel with a sulfur content that exceeds the above limitation, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
3. For each shipment of fuel oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of fuel oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/hr). (The sulfur dioxide emission rate shall be calculated in accordance with A.V.1.b.) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.
4. 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.
5. 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 stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.
6. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 06-4371, issued on July 30, 2002: sections A.III.1 through A.III.5. The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month operating hours limitation. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify the Ohio EPA, Southeast District Office in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from section A.III above. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Southeast District Office.
3. Deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c of this permit.
4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions not representative of normal operations were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
5. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install #06-4371, issued on July 30, 2002: sections A.IV.1 through A.IV.4. The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

V. Testing Requirements

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

1.a Emission Limitation:

Particulate emissions shall not exceed 0.63 lb/hr.

Applicable Compliance Method:

Compliance may be demonstrated using the particulate emission factor of 0.63 lb/hr based on emission test results for a similar unit provided by the manufacturer.

If required, compliance shall be demonstrated based upon emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

1.b Emission Limitation:

Sulfur dioxide emissions shall not exceed 3.0 lbs/hr.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III. The lb/mmBtu sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)(2) as follows:

$$ER = (1 \times 10E6)/H \times D \times S \times 1.974$$

where:

ER = emission rate in pounds of sulfur dioxide per MMBtu;
H = the heat content of the fuel in Btu per gallon;
D = the density of the fuel in pounds per gallon; and
S = the decimal fraction of sulfur in the fuel.

The lbs/hr sulfur dioxide emission rate shall be calculated using the formula above and the maximum hourly heat input rate as follows:

$$ER(\text{lbs/hr}) = ER(\text{lb/mmBtu}) \times 13.5 \text{ mmBtu/hr}$$

If required, compliance shall be demonstrated based upon emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

1.c Emission Limitation:

Nitrogen oxides emissions shall not exceed 70 lbs/hr.

Applicable Compliance Method:

Compliance may be demonstrated using the nitrogen oxides emission factor of 70 lbs/hr based on emission test results for a similar unit provided by the manufacturer.

If required, compliance shall be demonstrated based upon emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

V. Testing Requirements (continued)

1.d Emission Limitation:

Carbon monoxide emissions shall not exceed 7.6 lbs/hr.

Applicable Compliance Method:

Compliance may be demonstrated using the carbon monoxide emission factor of 7.5 lbs/hr based on emission test results for a similar unit provided by the manufacturer.

If required, compliance shall be demonstrated based upon emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

1.e Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

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

- 2.** Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install #06-4371, issued on July 30, 2002: sections A.V.1 through A.V.1.e. The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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 - Terms and Conditions for Emissions Units

Emissions Unit ID: Process Line 14 (P003)
Activity Description: Process Line 14

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Polystyrene production line 14 controlled with condensers, cyclone scrubber, dust collector and hot oil heaters	OAC rule 3745-31-05(A)(3) (PTI 06-4864)	<p>Total, point source, volatile organic compound (VOC) emissions shall not exceed 0.20 lb/hr and 0.9 ton/yr.</p> <p>Total, fugitive, VOC emissions shall not exceed 3.61 lbs/hr and 15.8 tons/yr.</p> <p>The following individual toxic pollutant limitations are included in the VOC emissions limitations above:</p> <p>styrene emissions (point source and fugitive) shall not exceed 2.09 lbs/hr and 9.2 tons/yr;</p> <p>toluene emissions (point source and fugitive) shall not exceed 1.45 lbs/hr and 6.4 tons/yr;</p> <p>cumene emissions (point source and fugitive) shall not exceed 0.13 lb/hr and 0.6 ton/yr;</p> <p>ethylbenzene emissions (fugitive) shall not exceed 0.008 lb/hr and 0.033 ton/yr; and</p> <p>xylene emissions (fugitive) shall not exceed 0.10 lb/hr and 0.43 ton/yr.</p> <p>Total particulate emissions (PE) shall not exceed 2.66 lbs/hr and 11.6 tons/yr.</p> <p>Total nitrogen oxides (NOx) emissions shall not exceed 2.40 lbs/hr and 10.5 tons/yr.</p>

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
		<p>Total carbon monoxide (CO) emissions shall not exceed 0.37 lb/hr and 1.6 tons/yr.</p> <p>Total sulfur dioxide (SO₂) emissions shall not exceed 1.54 lbs/hr and 6.8 tons/yr.</p>
	OAC rule 3745-17-07(A)	<p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), OAC rule 3745-21-09(DD), 40 CFR Part 60 Subpart DDD, and 40 CFR Part 60 Subpart VV.</p> <p>Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.</p> <p>See A.I.2.e below.</p>
	OAC rule 3745-21-09(DD) 40 CFR Part 63, Subpart JJJ [63.1316(c)(1)(iii)(A)]	<p>The permittee shall reduce the HAP or TOC emissions in a combustion device to achieve 98 weight percent reduction or to achieve a concentration of 20 parts per million by volume (ppmv) on a dry basis, whichever is less stringent. If the permittee elects to comply with the 20 ppmv standard, the concentration shall include a correction to 3 percent oxygen only when supplemental combustion air is used to combust the emissions. Compliance may be based on either organic HAP or TOC.</p>
	OAC rule 3745-17-11(B)(1)	See A.I.2.f below.
	OAC rule 3745-21-07(G)(2)	See A.I.2.a below.
	OAC rule 3745-21-09(CC)	See A.I.2.b below.
	40 CFR Part 60, Subpart VV	See A.I.2.a below.
	40 CFR Part 60, Subpart DDD	See A.I.2.c below.
		See A.I.2.d below.

2. Additional Terms and Conditions

- 2.a** The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions (continued)

- 2.b** This emissions unit does not employ, apply, evaporate or dry any photochemically reactive material (PRM), or any substance containing such PRM. Therefore, there are no applicable emission limitations from OAC rule 3745-21-07(G)(2).
- 2.c** After the compliance dates specified in 40 CFR Part 63, Subpart JJJ, an affected source subject to this subpart that is also subject to the provisions of 40 CFR Part 60, Subpart VV, is required to comply only with the provisions of Subpart JJJ. After the compliance dates specified in this section, said source shall no longer be subject to 40 CFR Part 60, Subpart VV.
- 2.d** Affected sources producing polystyrene resin using a continuous process subject to 40 CFR Part 63, Subpart JJJ, that are also subject to the provisions of 40 CFR Part 60, Subpart DDD, are required to comply only with Subpart JJJ. After the compliance dates specified in Subpart JJJ, said sources shall no longer be subject to 40 CFR Part 60, Subpart DDD.
- 2.e** A Leak Detection and Repair (LDAR) Program shall be maintained for equipment in this process unit in accordance with sections A.III.2 through A.III.33, A.IV.2, and A.IV.3.
- 2.f** [40 CFR 63.1313(a)]

If applicable, the permittee shall comply with the provisions in:

- (1) Section 63.1314 for storage vessels;
 - (2) Section 63.1315, or 63.1316 through 63.1320, as appropriate, for continuous process vents;
 - (3) Section 63.1321 for batch process vents;
 - (4) Section 63.1328 for heat exchange systems;
 - (5) Section 63.1329 for process contact cooling towers;
 - (6) Section 63.1330 for wastewater;
 - (7) Section 63.1331 for equipment leaks;
 - (8) Section 63.1333 for additional test methods and procedures;
 - (9) Section 63.1334 for parameter monitoring levels and excursions; and
 - (10) Section 63.1335 for general record keeping and reporting requirements.
- 2.g** All emissions from the reaction, stripping, and recovery operations associated with this emissions unit shall be vented to the condensers and hot oil heaters.

II. Operational Restrictions

1. The permittee shall not employ any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day a photochemically reactive material is employed, the permittee shall maintain a record of the type and quantity of such materials employed in this emissions unit.
2. [OAC rule 3745-21-09(DD)(2)(a)]
Leak Detection and Repair (LDAR) Program

The permittee shall maintain a LDAR Program for equipment in the process unit in accordance with the requirements specified in paragraphs (DD)(2)(b) to (DD)(2)(m) of OAC rule 3745-21-09.

III. Monitoring and/or Record Keeping Requirements (continued)

3. [OAC rule 3745-21-09(DD)(2)(b)]

Except as otherwise provided in paragraphs (DD)(2)(c) and (DD)(2)(d) of OAC rule 3745-21-09, equipment shall be monitored for leaks in accordance with the method specified in paragraph (F) of rule 3745-21-10 of the Administrative Code, as follows:

(i) Any pump in light liquid service shall be monitored monthly.

(ii) Any valve in gas/vapor service or in light liquid service shall be monitored monthly, except that quarterly monitoring may be employed anytime after no leaks are detected during two consecutive months. The quarterly monitoring shall begin with the next calendar quarter following the two consecutive months of no detected leaks and shall be conducted in the first month of each calendar quarter. The quarterly monitoring may continue until a leak is detected, at which time monthly monitoring shall be employed again.

(iii) Any of the following equipment shall be monitored within five calendar days after evidence of a leak or potential leak from the equipment by visual, audible, olfactory, or other detection method:

(a) Any pump in heavy liquid service;

(b) Any valve in heavy liquid service;

(c) Any pressure relief device in light liquid service or in heavy liquid service; and

(d) Any flange or other connector.

(iv) Any equipment in which a leak is detected as described in paragraph (DD)(2)(g) of OAC rule 3745-21-09 shall be monitored within five working days after each attempt to repair, unless the owner or operator believes that the equipment was not successfully repaired.

4. [OAC rule 3745-21-09(DD)(2)(c)]

For any valve in gas/vapor service or in light liquid service, an alternative monitoring schedule may be employed in lieu of the monitoring schedule specified in paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09 as follows:

(i) The valve is designated as difficult to monitor and is monitored each calendar year, provided the following conditions are met:

(a) Construction of the process unit commenced prior to May 9, 1986.

(b) The owner or operator of the valve demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than six feet above a support surface.

(c) The owner or operator of the valve has a written plan that requires monitoring of the valve at least once per year.

(ii) The valve is designated as unsafe to monitor and is monitored as frequently as practical during safe to monitor times, provided the following conditions are met:

(a) The owner or operator 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 monitoring on a monthly basis.

(b) The owner or operator of the valve adheres to a written plan that requires monitoring of the valve as frequently as practical during safe to monitor times.

(iii) The valve is subject to an alternative monitoring schedule based on a skip period as specified in paragraph (DD)(12) of OAC rule 3745-21-09.

III. Monitoring and/or Record Keeping Requirements (continued)

5. [OAC rule 3745-21-09(DD)(2)(d)]
Excluded from the monitoring requirements of paragraph (DD)(2)(b) of OAC rule 3745-21-09 are the following equipment:
- (i) Any pump that has no externally actuated shaft penetrating the pump housing and that is designated for no detectable emissions as provided in paragraph (DD)(7) of OAC rule 3745-21-09;
 - (ii) Any pump that is equipped with a dual mechanical seal which has a barrier fluid system and sensor that comply with the requirements specified in paragraph (DD)(8) of OAC rule 3745-21-09;
 - (iii) Any pump that is equipped with a closed vent system capable of capturing and transporting any leakage from the pump seal to control equipment, provided the closed vent system and the control equipment comply with the requirements specified in paragraphs (DD)(9) and (DD)(10) of OAC rule 3745-21-09;
 - (iv) Any valve that has no externally actuated stem penetrating the valve and that is designated for no detectable emissions as provided in paragraph (DD)(7) of OAC rule 3745-21-09; and
 - (v) Any valve that is subject to the alternative monitoring standard for valves based on the percentage of valves leaking as provided in paragraph (DD)(13) of OAC rule 3745-21-09.
6. [OAC rule 3745-21-09(DD)(2)(e)]
Any pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal, unless the pump is equipped with a closed vent system capable of transporting any leakage from the pump seal to control equipment, and the closed vent system and control equipment comply with the requirements specified in paragraphs (DD)(9) and (DD)(10) of OAC rule 3745-21-09.
7. [OAC rule 3745-21-09(DD)(2)(f)]
Any sensor employed pursuant to paragraph (DD)(2)(d)(ii) or (DD)(3)(b) of OAC rule 3745-21-09 shall be checked daily, unless the sensor is equipped with an audible alarm.
8. [OAC rule 3745-21-09(DD)(2)(g)]
A leak is detected:
- (i) When a concentration of ten thousand ppmv or greater is measured from a potential leak interface of any equipment that is monitored for leaks using the method in paragraph (F) of rule 3745-21-10 of the Administrative Code;
 - (ii) When there is an indication of liquids dripping from the seal of a pump in light liquid service; or
 - (iii) When a sensor employed pursuant to paragraph (DD)(2)(d)(ii) or (DD)(3)(b) of OAC rule 3745-21-09 indicates failure of the seal system, the barrier fluid system, or both.
9. [OAC rule 3745-21-09(DD)(2)(h)]
When a leak is detected as described in paragraph (DD)(2)(g) of OAC rule 3745-21-09, the following procedures shall be followed:
- (i) A weatherproof and readily visible identification tag, marked with the equipment identification number, is immediately attached to the leaking equipment.
 - (ii) A record of the leak and any attempt to repair the leak is entered into the leak repair log kept pursuant to paragraph (DD)(2)(k) of OAC rule 3745-21-09.
 - (iii) The identification tag attached to the leaking equipment, other than a valve that is monitored pursuant to paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09, may be removed after the leaking equipment is repaired.
 - (iv) The identification tag attached to a leaking valve that is monitored pursuant to paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09 may be removed after the leaking valve is repaired, monitored for leaks for two consecutive months as specified in paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09, and found to have no detected leaks during those two consecutive months.

III. Monitoring and/or Record Keeping Requirements (continued)

10. [OAC rule 3745-21-09(DD)(2)(i)]
When a leak is detected as described in paragraph (DD)(2)(g) of OAC rule 3745-21-09, the leaking equipment shall be repaired as soon as practicable, but no later than fifteen calendar days after the leak is detected, except for a delay of repair as provided in paragraph (DD)(11) of OAC rule 3745-21-09. Leaking equipment shall be deemed repaired if the maximum concentration measured pursuant to paragraph (DD)(2)(b)(iv) of OAC rule 3745-21-09 is less than ten thousand ppmv.
11. [OAC rule 3745-21-09(DD)(2)(j)]
When a leak is detected as described in paragraph (DD)(2)(g) of OAC rule 3745-21-09, a first attempt at repair shall be made no later than five calendar days after the leak is detected; and the first attempts at repair shall include, but are not limited to, the following best practices where practicable:
- (i) Tightening of bonnet bolts;
 - (ii) Replacement of bonnet bolts;
 - (iii) Tightening of packing gland nuts; and
 - (iv) Injection of lubricant into lubricated packing.
12. [OAC rule 3745-21-09(DD)(2)(k)]
When a leak is detected as described in paragraph (DD)(2)(g) of OAC rule 3745-21-09, the following information shall be recorded in a leak repair log:
- (i) The identification number of the leaking equipment and, for leaks based on monitoring, the identification numbers of the leak detection instrument and its operator;
 - (ii) The basis for the detection of the leak; for example, monitoring, visual inspection, or sensor;
 - (iii) The date on which the leak was detected and the date of each attempt to repair the leaking equipment;
 - (iv) The methods of repair applied in each attempt to repair the leaking equipment;
 - (v) One of the following entries within five working days after each attempt to repair the leaking equipment:
 - (a) "Not monitored," denoting the leaking equipment was presumed to still be leaking and it was not monitored; or
 - (b) If the leaking equipment was monitored with a leak detection instrument, the maximum concentration that was measured as follows:
 - (i) The actual reading in ppmv; or
 - (ii) "Below 10,000," denoting less than ten thousand ppmv; or
 - (iii) "Above 10,000," denoting not less than ten thousand ppmv;
 - (vi) If the leak is not repaired within fifteen calendar days after the date on which it was detected:
 - (a) "Repair delayed" and the reason for the delay;
 - (b) If repair is being delayed until the next process unit shutdown due to technical infeasibility of repair, the signature of the owner or operator whose decision it was that repair is technically infeasible without a process unit shutdown;
 - (c) The expected date of successful repair of the leak;
 - (d) The dates of process unit shutdowns that occur while the leaking equipment is unrepaired; and
 - (vii) The date on which the leak was successfully repaired.

III. Monitoring and/or Record Keeping Requirements (continued)

13. [OAC rule 3745-21-09(DD)(2)(I)]
The leak repair log shall be retained by the owner or operator of the process unit in a readily accessible location for a minimum of two years after the date on which the record was made.
14. [OAC rule 3745-21-09(DD)(3)]
Compressors.
- (a) Except as otherwise provided in paragraphs (DD)(3)(c) to (DD)(3)(e) of OAC rule 3745-21-09, any compressor in the process unit shall comply with the requirements specified in paragraph (DD)(3)(b) of OAC rule 3745-21-09.
- (b) The compressor shall be equipped with a seal that has a barrier fluid system and sensor which comply with the requirements specified in paragraph (DD)(8) of OAC rule 3745-21-09.
- (c) Excluded from the requirements of paragraph (DD)(3)(b) of OAC rule 3745-21-09 is any compressor that is designated for no detectable emissions as provided in paragraph (DD)(7) of OAC rule 3745-21-09.
- (d) Excluded from the requirements of paragraph (DD)(3)(b) of OAC rule 3745-21-09 is any compressor that is equipped with a closed vent system capable of capturing and transporting any leakage from the compressor seal to control equipment, provided the closed vent system and the control equipment comply with the requirements specified in paragraphs (DD)(9) and (DD)(10) of OAC rule 3745-21-09.
- (e) Excluded from the requirements of paragraph (DD)(3)(b) of OAC rule 3745-21-09 is any reciprocating compressor that meets the following conditions:
- (i) The compressor was installed prior to May 9, 1986; and
- (ii) The owner or operator of the compressor demonstrates to the satisfaction of the director that recasting the compressor distance piece or replacing the compressor are the only options available to bring the compressor into compliance with the requirements of paragraph (DD)(3)(b) of OAC rule 3745-21-09.
15. [OAC rule 3745-21-09(DD)(4)]
Pressure relief devices in gas/vapor service.
- (a) Except as otherwise provided in paragraph (DD)(4)(e) of OAC rule 3745-21-09, any pressure relief device in gas/vapor service in the process unit shall comply with the requirements specified in paragraphs (DD)(4)(b) to (DD)(4)(d) of OAC rule 3745-21-09.
- (b) Except during pressure releases, the pressure relief device shall be operated with no detectable emissions, as indicated by an instrument reading of less than five hundred ppmv above background, as measured by the method specified in paragraph (F) of rule 3745-21-10 of the Administrative Code.
- (c) No later than five calendar days after a pressure release, the pressure relief device shall be tested to confirm the condition of no detectable emissions in accordance with the method specified in paragraph (F) of rule 3745-21-10 of the Administrative Code.
- (d) After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions as soon as practicable, but no later than five calendar days after the pressure release, except for a delay of repair as provided in paragraph (DD)(11) of OAC rule 3745-21-09.
- (e) Excluded from the requirements of paragraphs (DD)(4)(b) to (DD)(4)(d) of OAC rule 3745-21-09 is any pressure relief device that is equipped with a closed vent system capable of capturing and transporting leakage through the pressure relief device to control equipment, provided the closed vent system and control equipment comply with the requirements specified in paragraphs (DD)(9) and (DD)(10) of OAC rule 3745-21-09.

III. Monitoring and/or Record Keeping Requirements (continued)

- 16.** [OAC rule 3745-21-09(DD)(5)]
Sampling connection system.

(a) Except as otherwise provided in paragraph (DD)(5)(c) of OAC rule 3745-21-09, any sampling connection system in the process unit shall comply with the requirements specified in paragraph (DD)(5)(b) of OAC rule 3745-21-09.

(b) The sampling connection system shall be equipped with a closed purge system or a closed vent system that meets one of the following requirements:

(i) The purged process fluid is returned directly to the process line with zero VOC emissions to the ambient air;

(ii) The purged process fluid is collected and recycled with zero VOC emissions to the ambient air; or

(iii) The closed purge system or closed vent system is designed and operated to capture and transport all the purged process fluid to control equipment that meet the requirements specified in paragraph (DD)(10) of this rule.

(c) Excluded from the requirements of paragraph (DD)(5)(b) of OAC rule 3745-21-09 is any sampling connection system that is an in-situ sampling system.

- 17.** [OAC rule 3745-21-09(DD)(6)]
Open-ended valves or lines.

(a) Any open-ended valve or line in the process unit shall be equipped with a cap, blind flange, plug, or second valve and shall comply with the requirements specified in paragraphs (DD)(6)(b) to (DD)(6)(d) of OAC rule 3745-21-09.

(b) Except during operations requiring the flow of process fluid through the open-ended valve or line, the cap, blind flange, plug, or second valve shall seal the open end of the open-ended valve or line.

(c) If equipped with a second valve, the open-ended valve or line shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

(d) If a double block and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves, but shall comply with paragraph (DD)(6)(b) of OAC rule 3745-21-09 at all other times.

- 18.** [OAC rule 3745-21-09(DD)(7)]
Equipment designated for no detectable emissions.

(a) Any equipment (pump, valve, or compressor) designated for no detectable emissions pursuant to paragraph (DD)(2)(d)(i), (DD)(2)(d)(iv) or (DD)(3)(c) of OAC rule 3745-21-09 shall comply with the requirements specified in paragraphs (DD)(7)(b) to (DD)(7)(d) of OAC rule 3745-21-09.

(b) The equipment shall be operated with no detectable emissions as indicated by an instrument reading of less than five hundred ppmv above background as measured by paragraph (F) of rule 3745-21-10 of the Administrative Code.

(c) The equipment shall be tested for compliance with paragraph (DD)(7)(b) of OAC rule 3745-21-09 initially upon designation and annually.

(d) The designation of the equipment shall be signed by the owner or operator of the equipment in the log kept pursuant to paragraph (DD)(14)(b) of OAC rule 3745-21-09.

III. Monitoring and/or Record Keeping Requirements (continued)

19. [OAC rule 3745-21-09(DD)(8)]

Barrier fluid systems and sensors for pumps and compressors.

(a) When a pump or compressor is equipped with a seal that has a barrier fluid system and sensor which are employed to meet the requirements of paragraph (DD)(2)(d)(ii) or (DD)(3)(a) of OAC rule 3745-21-09, the requirements of paragraphs (DD)(8)(b) to (DD)(8)(d) of OAC rule 3745-21-09 shall be met.

(b) The barrier fluid system shall meet one of the following conditions:

(i) The barrier fluid system is operated with a barrier fluid at a pressure that is at all times greater than the stuffing box pressure of the pump or compressor.

(ii) The barrier fluid system is equipped with a barrier fluid degassing reservoir that is connected by a closed vent system to control equipment and the closed vent system and control equipment comply with the requirements specified in paragraphs (DD)(9) and (DD)(10) of OAC rule 3745-21-09.

(iii) The barrier fluid system is equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the ambient air.

(c) The barrier fluid system shall be in heavy liquid service or shall not be in VOC service.

(d) The barrier fluid system shall be equipped with a sensor that will detect failure of the seal system, the barrier fluid system, or both based on criteria determined by the owner or operator from design considerations and operating experience.

20. [OAC rule 3745-21-09(DD)(9)]

Closed vent systems.

(a) Any closed vent system that is used to comply with the requirements of paragraph (DD)(2)(d)(iii), (DD)(3)(d), (DD)(4)(e), or (DD)(8)(b)(ii) of OAC rule 3745-21-09 shall comply with the requirements specified in paragraphs (DD)(9)(b) to (DD)(9)(d) of OAC rule 3745-21-09.

(b) The closed vent system shall be designed and operated with no detectable emissions, as indicated by an instrument reading of less than five hundred ppmv above background, as measured by the method specified in paragraph (F) of rule 3745-21-10 of the Administrative Code.

(c) The closed vent system shall be tested for compliance with paragraph (DD)(9)(b) of OAC rule 3745-21-09 initially and annually.

(d) The closed vent system shall be operated at all times when emissions may be vented to it.

21. [OAC rule 3745-21-09(DD)(10)]

Control equipment.

(a) Any control equipment that is used to comply with the requirements of paragraph (DD)(2)(d)(iii), (DD)(3)(d), (DD)(4)(e), (DD)(5)(b)(iii), (DD)(8)(b)(ii), or (DD)(11)(d)(ii) of OAC rule 3745-21-09 shall comply with the requirements specified in paragraphs (DD)(10)(b) to (DD)(10)(f) of OAC rule 3745-21-09.

(b) If the control equipment is a vapor recovery system, it shall be designed and operated to recover VOC emissions vented to it with an efficiency of at least ninety-five per cent by weight.

(c) If the control equipment is an enclosed combustion device, it shall be designed and operated to reduce the VOC emissions vented to it with an efficiency of at least ninety-five per cent by weight, or to provide a minimum residence time of 0.75 second at a minimum temperature of fifteen hundred degrees Fahrenheit.

III. Monitoring and/or Record Keeping Requirements (continued)

(d) If the control equipment is a flare, it shall meet the following requirements:

(i) The flare shall be designed for and operated with no visible emissions as determined by "Method 22, 40 CFR, Part 60, Appendix A," except for periods not to exceed a total of five minutes during any one hundred twenty consecutive minutes.

(ii) The flare shall be operated with either an electric arc ignition system or a pilot flame. If a pilot flame is employed, the flame shall be present at all times and shall be monitored with a thermocouple or any other equivalent device to detect the presence of the pilot flame. If an electric arc ignition system is employed, the arcing shall pulse continually and shall be monitored to detect any failure.

(iii) The flare shall be steam-assisted, air-assisted or nonassisted.

(iv) The net heating value of the gas being combusted in the flare, as determined by the method specified in paragraph (P)(2) of rule 3745-21-10 of the Administrative Code, shall be three hundred Btu/scf or greater if the flare is steam-assisted or air-assisted, or shall be two hundred Btu/scf or greater if the flare is nonassisted.

(v) Except as provided in paragraph (DD)(10)(d)(vi) of OAC rule 3745-21-09, the flare shall be designed and operated with an actual exit velocity, as determined by the method specified in paragraph (P)(3) of rule 3745-21-10 of the Administrative Code, less than sixty feet per second if the flare is steam-assisted or nonassisted, or less than the maximum permitted velocity, as determined in paragraph (P)(4) of rule 3745-21-10 of the Administrative Code, if the flare is air-assisted.

(vi) Excluded from the requirements of paragraph (DD)(10)(d)(v) of OAC rule 3745-21-09 is any steam-assisted or nonassisted flare that meets both of the following requirements:

(a) The net heating value of the gas being combusted in the flare, as determined by the method specified in paragraph (P)(2) of rule 3745-21-10 of the Administrative Code, shall be greater than one thousand Btu/scf.

(b) The flare shall be designed and operated with an actual exit velocity, as determined by the method specified in paragraph (P)(3) of rule 3745-21-10 of the Administrative Code, less than four hundred feet per second.

(e) The owner or operator of the control equipment shall monitor the control equipment to ensure that it is operated and maintained in conformance with its design.

(f) The control equipment shall be operated at all times when emissions may be vented to it.

III. Monitoring and/or Record Keeping Requirements (continued)

22. [OAC rule 3745-21-09(DD)(11)]
Delay of repair.

(a) A delay of repair that is employed pursuant to paragraph (DD)(2)(i) or (DD)(4)(d) of OAC rule 3745-21-09 shall be allowed only as provided in paragraphs (DD)(11)(b) to (DD)(11)(f) of OAC rule 3745-21-09.

(b) A delay of repair shall be allowed if the repair is technically infeasible without a process unit shutdown. However, the repair shall occur before the end of the next process unit shutdown.

(c) A delay of repair shall be allowed for a piece of equipment that is isolated from the process and that does not remain in VOC service (for example, isolated from the process and properly purged).

(d) A delay of repair for a valve shall be allowed if:

(i) The owner or operator of the valve demonstrates that the emission of purged material resulting from immediate repair is greater than the emission likely to result from delay of repair; and

(ii) When repair procedures are effected, the purged material is collected and destroyed or recovered in control equipment that meets the requirements specified in paragraph (DD)(10) of OAC rule 3745-21-09.

(e) A delay of repair for a pump shall be allowed if:

(i) The repair requires the use of a dual mechanical seal system and associated barrier fluid system; and

(ii) The repair is completed as soon as practicable, but no later than six months after the leak was detected.

(f) A delay of repair beyond a process unit shutdown shall be allowed for a valve if a 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. A delay of repair beyond the next process unit shutdown shall not be allowed for that valve unless the next process unit shutdown occurs sooner than six months after the first process unit shutdown.

23. [OAC rule 3745-21-09(DD)(12)]
Alternative monitoring schedule for valves based on a skip period.

(a) Any owner or operator of a process unit may elect to implement an alternative monitoring schedule in lieu of the monitoring requirements specified in paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09, as provided in paragraph (DD)(2)(c)(iii) of OAC rule 3745-21-09. The alternative monitoring schedule shall be based on skipping quarterly monitoring periods provided the percentage of valves leaking is no more than 2.0. Any owner or operator who elects to implement an alternative monitoring schedule shall comply with the requirements specified in paragraphs (DD)(12)(b) to (DD)(12)(h) of OAC rule 3745-21-09.

(b) The owner or operator must notify the director prior to implementing this alternative monitoring schedule. Such notification must identify which valves will be subject to this alternative monitoring schedule and which work practice within paragraph (DD)(12)(e) of OAC rule 3745-21-09 will be implemented. Any valve in vacuum service, in heavy liquid service, or not in VOC service, shall be excluded from this alternative monitoring schedule.

(c) Any valve subject to this alternative monitoring schedule shall comply initially with the monitoring requirements specified in paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09.

(d) Any valve subject to this alternative monitoring schedule shall continue to be subject to the requirements specified in paragraphs (DD)(2)(g) to (DD)(2)(m) of OAC rule 3745-21-09.

III. Monitoring and/or Record Keeping Requirements (continued)

- (e) One of the following two alternative work practices for skipping monitoring periods may be implemented:
- (i) After two consecutive quarterly leak detection periods with the percentage of valves leaking equal to or less than 2.0, a monitoring program may begin in which the first quarter of every two consecutive quarterly leak detection periods is skipped.
- (ii) After five consecutive quarterly leak detection periods with the percentage of valves leaking equal to or less than 2.0, a monitoring program may begin in which the first three quarters of every four consecutive quarterly periods is skipped.
- (f) If the percentage of valves leaking is greater than 2.0, the owner or operator shall comply with the monitoring requirements as specified in paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09, but may again elect to use this alternative monitoring schedule.
- (g) The percentage of valves leaking shall be determined for the valves subject to this alternative monitoring schedule as the sum of the number of those valves found leaking during any portion of the current monitoring period and the number of those valves found leaking during a previous monitoring period for which repair has been delayed during the current monitoring period, divided by the total number of valves, and multiplied by one hundred.
- (h) The following information pertaining to valves subject to this alternative monitoring schedule shall be recorded in a log that is kept in a readily accessible location:
- (i) A schedule of monitoring; and
- (ii) The percentage of valves leaking during each monitoring period.

24. [OAC rule 3745-21-09(DD)(13)]

Alternative monitoring standard for valves based on the allowable percentage of valves leaking.

- (a) Any owner or operator of a process unit may elect to implement an alternative monitoring standard in lieu of the monitoring requirements specified in paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09, as provided in paragraph (DD)(2)(d)(v) of OAC rule 3745-21-09. The alternative monitoring standard shall be based on maintaining the percentage of valves leaking at 2.0 or less. Any owner or operator who elects to implement an alternative monitoring standard shall comply with the requirements specified in paragraphs (DD)(13)(b) to (DD)(13)(g) of OAC rule 3745-21-09.
- (b) The owner or operator must notify the director prior to implementing this alternative monitoring standard.
- (c) All valves in gas/vapor service or in light liquid service in the process unit shall be subject to this alternative monitoring standard, except for those valves which are designated as unsafe to monitor as provided in paragraph (DD)(2)(c)(ii) of OAC rule 3745-21-09, those valves not in VOC service, and those valves in vacuum service.
- (d) The percentage of valves leaking, as determined in accordance with paragraph (DD)(13)(f) of OAC rule 3745-21-09, shall not exceed 2.0. If the percentage of valves leaking is greater than 2.0, the owner or operator shall comply with the monitoring requirements as specified in paragraph (DD)(2)(b)(ii) of OAC rule 3745-21-09, but may again elect to use this alternative monitoring standard.

III. Monitoring and/or Record Keeping Requirements (continued)

(e) All valves subject to this alternative monitoring standard shall be tested for compliance with paragraph (DD)(13)(d) of OAC rule 3745-21-09 initially upon implementation and annually.

(f) A compliance test shall be conducted in the following manner:

(i) All valves subject to this alternative monitoring standard shall be monitored for leaks within a one-week period by the method specified in paragraph (F) of rule 3745-21-10 of the Administrative Code.

(ii) If an instrument reading of ten thousand ppmv or greater is measured, a leak is detected.

(iii) The percentage of valves leaking shall be determined as the number of valves for which a leak is detected, divided by the number of valves monitored, and multiplied by one hundred.

(g) When a leak is detected as described in paragraph (DD)(13)(f)(ii) of OAC rule 3745-21-09, the leaking valve shall be repaired in accordance with paragraphs (DD)(2)(h) and (DD)(2)(i) of OAC rule 3745-21-09.

25. [OAC rule 3745-21-09(DD)(14)(a)]
LDAR Program Record Keeping

Each owner or operator of a process unit as described in paragraph (DD)(1) of OAC rule 3745-21-09 shall comply with the record keeping requirements of paragraphs (DD)(14)(b) to (DD)(14)(g) of OAC rule 3745-21-09. An owner or operator of more than one process unit may use one record keeping system to comply with the record keeping requirements, provided the system identifies each record by each process unit.

26. [OAC rule 3745-21-09(DD)(14)(b)]

The following information shall be recorded in a log that is kept in a readily accessible location:

(i) A list of identification numbers for equipment subject to the requirements of paragraphs (DD)(2) to (DD)(10) of OAC rule 3745-21-09;

(ii) A list of identification numbers for equipment designated for no detectable emissions as provided in paragraph (DD)(7) of OAC rule 3745-21-09, and a signature of the owner or operator authorizing such designation;

(iii) A list of identification numbers for pressure relief devices subject to paragraph (DD)(4) of OAC rule 3745-21-09;

(iv) A list of identification numbers for closed vent systems subject to paragraph (DD)(9) of OAC rule 3745-21-09; and

(v) For compliance tests required under paragraphs (DD)(4)(c), (DD)(7)(c), and (DD)(9)(c) of OAC rule 3745-21-09:

(a) The date of each compliance test;

(b) The background level measured during each compliance test; and

(c) The maximum instrument reading measured at the equipment during each compliance test.

III. Monitoring and/or Record Keeping Requirements (continued)

- 27.** [OAC rule 3745-21-09(DD)(14)(c)]
The following information pertaining to valves subject to an alternative monitoring schedule, as provided in paragraph (DD)(2)(c) of OAC rule 3745-21-09, shall be recorded in a log that is kept in a readily accessible location:
- (i) A list of identification numbers for valves 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;
 - (ii) A list of identification numbers for valves designated as difficult to monitor, an explanation for each valve stating why the valve is difficult to monitor, and the schedule for monitoring each valve; and
 - (iii) A list of identification numbers for valves subject to the alternative monitoring schedule based on a skip period, a schedule for monitoring, and the percentage of valves leaking during each monitoring period.
- 28.** [OAC rule 3745-21-09(DD)(14)(d)]
The following information pertaining to closed vent systems and control equipment described in paragraphs (DD)(9) and (DD)(10) of OAC rule 3745-21-09 shall be recorded and kept in a readily accessible location:
- (i) Detailed schematics, design specifications, and piping and instrumentation diagrams;
 - (ii) The dates and descriptions of any changes in the design specifications;
 - (iii) A description of the parameter or parameters monitored, as required in paragraph (DD)(10)(d) of OAC rule 3745-21-09, to ensure that the control equipment is operated and maintained in conformance with its design, and an explanation of the reason for selecting such parameter or parameters;
 - (iv) Periods when the closed vent systems and control equipment are not operated as designed, including periods when a flare pilot light does not have a flame; and
 - (v) Dates of startups and shutdowns of the closed vent systems and control equipment.
- 29.** [OAC rule 3745-21-09(DD)(14)(e)]
The following information pertaining to barrier fluid systems and sensors described in paragraph (DD)(8) of OAC rule 3745-21-09 shall be recorded in a log that is kept in a readily accessible location:
- (i) A list of identification numbers of pumps and compressors equipped with such barrier fluid systems and sensors;
 - (ii) The criteria that indicate failure of the seal system, the barrier fluid system, or both, as required in paragraph (DD)(8)(d) of OAC rule 3745-21-09 and an explanation of the criteria; and
 - (iii) Any changes to such criteria and the reasons for the changes.
- 30.** [OAC rule 3745-21-09(DD)(14)(f)]
The following information for use in determining an exemption for the process unit as provided in paragraph (DD)(17)(a) of OAC rule 3745-21-09 shall be recorded in a log that is kept in a readily accessible location:
- (i) An analysis demonstrating the design capacity of the process unit;
 - (ii) A statement listing the feed and raw materials and products from the process unit and an analysis demonstrating whether these chemicals are heavy liquids or beverage alcohols; or
 - (iii) An analysis demonstrating that no equipment is in VOC service.

III. Monitoring and/or Record Keeping Requirements (continued)

31. [OAC rule 3745-21-09(DD)(14)(g)]
The following information pertaining to specific equipment that are exempt as provided in paragraph (DD)(17)(b) of OAC rule 3745-21-09 shall be recorded in a log that is kept in a readily accessible location:
- (i) A list of identification numbers of equipment in vacuum service;
 - (ii) A list of identification numbers of equipment not in VOC service and the information or data used to demonstrate that the equipment is not in VOC service; and
 - (iii) A list of equipment subject to an equivalent emission requirement that is approved by the director pursuant to paragraph (DD)(16) of OAC rule 3745-21-09.
32. [OAC rule 3745-21-09(DD)(16)]
Equivalent Requirement
- (a) Any owner or operator of a process unit may apply to the Director for determination of an equivalent requirement in lieu of the requirements specified in paragraphs (DD)(2) to (DD)(10) of OAC rule 3745-21-09(DD). The determination of equivalence will be evaluated by the guidelines specified in paragraphs (DD)(16)(b) to (DD)(16)(d) of OAC rule 3745-21-09(DD). If the director approves an equivalent requirement for a process unit, said requirement shall be specified in the special terms and conditions of the permit to operate or variance issued by the Director for the process unit.
 - (b) The owner or operator applying for a determination of equivalency shall be responsible for collecting and verifying test data to demonstrate the proposed equivalence.
 - (c) The equivalent requirement shall achieve a reduction in emissions of VOC at least equivalent to the reduction in emissions of VOC that would be achieved by compliance with the applicable requirements of paragraph (DD) of OAC rule 3745-21-09(DD).
 - (d) The Director may condition the approval of equivalence as necessary to ensure the same emission reduction as the applicable requirements of paragraph (DD) of OAC rule 3745-21-09(DD).
33. [OAC rule 3745-21-09(DD)(17)]
LDAR Program Exemptions
- (a) Exempted from the requirements of paragraphs (DD)(2) to (DD)(6) of OAC rule 3745-21-09 are the following process units:
 - (i) Any process unit that has a design capacity to produce less than one thousand one hundred tons per year;
 - (ii) Any process unit that produces only heavy liquid chemicals from heavy liquid feed or raw materials;
 - (iii) Any process unit that produces beverage alcohol;
 - (iv) Any process unit that has no equipment in VOC service as determined in accordance with paragraph (O)(2) of rule 3745-21-10 of the Administrative Code; and
 - (v) Any process unit at a petroleum refinery, as defined in paragraph (E)(15) of rule 3745-21-01 of the Administrative Code.
 - (b) Exempted from the requirements of paragraphs (DD)(2) to (DD)(6) of OAC rule 3745-21-09 are the following equipment:
 - (i) Any equipment not in VOC service, as determined in accordance with paragraph (O)(2) of rule 3745-21-10 of the Administrative Code;
 - (ii) Any equipment in vacuum service; and
 - (iii) Any equipment subject to an equivalent emission limitation as provided in paragraph (DD)(16) of OAC rule 3745-21-09.

III. Monitoring and/or Record Keeping Requirements (continued)

34. [40 CFR 63.1314(a)]
Storage Vessel Provisions

This section applies to each storage vessel that is assigned to an affected source, as determined by 63.1310(g). Except as provided in paragraphs (b) through (d) of 63.1314, the owner or operator of an affected source shall comply with the requirements of 63.119 through 63.123 and 63.148 for those storage vessels, with the differences noted in paragraphs (a)(1) through (a)(17) of 63.1314 for the purposes of this subpart.

- (1) When the term "storage vessel" is used in 63.119 through 63.123, the definition of this term in 63.1312 shall apply for the purposes of this subpart.
- (2) When the term "Group 1 storage vessel" is used in 63.119 through 63.123, the definition of this term in 63.1312 shall apply for the purposes of this subpart.
- (3) When the term "Group 2 storage vessel" is used in 63.119 through 63.123, the definition of this term in 63.1312 shall apply for the purposes of this subpart.
- (4) When the emissions averaging provisions of 63.150 are referred to in 63.119 and 63.123, the emissions averaging provisions contained in 63.1332 shall apply for the purposes of this subpart.
- (5) When December 31, 1992, is referred to in 63.119, March 29, 1995 shall apply instead, for the purposes of this subpart.
- (6) When April 22, 1994, is referred to in 63.119, June 19, 2000 shall apply instead, for the purposes of this subpart.
- (7) Each owner or operator of an affected source shall comply with this paragraph (a)(7) instead of 63.120(d)(1)(ii) for the purposes of this subpart. If the control device used to comply with 63.119(e) is also used to comply with any of the requirements found in 63.1315, 63.1316, 63.1322, or 63.1330, the performance test required in or accepted by the applicable requirements of 63.1315, 63.1316, 63.1322, and 63.1330 is acceptable for demonstrating compliance with 63.119(e) for the purposes of this subpart. The owner or operator is not required to prepare a design evaluation for the control device as described in 63.120(d)(1)(i), if the performance test meets the criteria specified in paragraphs (a)(7)(i) and (a)(7)(ii) of 63.1314.
 - (i) The performance test demonstrates that the control device achieves greater than or equal to the required control efficiency specified in 63.119(e)(1) or 63.119(e)(2), as applicable; and
 - (ii) The performance test is submitted as part of the Notification of Compliance Status required by 63.1335(e)(5).
- (8) When the term "range" is used in 63.120(d)(3), 63.120(d)(5), and 63.122(g)(2), the term "level" shall apply instead, for the purposes of this subpart.

III. Monitoring and/or Record Keeping Requirements (continued)

(9) For purposes of this subpart, the monitoring plan required by 63.120(d)(2) shall specify for which control devices the owner or operator has selected to follow the procedures for continuous monitoring specified in 63.1334. For those control devices for which the owner or operator has selected to not follow the procedures for continuous monitoring specified in 63.1334, the monitoring plan shall include a description of the parameter or parameters to be monitored to ensure that the control device is being properly operated and maintained, an explanation of the criteria used for selection of that parameter (or parameters), and the frequency with which monitoring will be performed (e.g., when the liquid level in the storage vessel is being raised), as specified in 63.120(d)(2)(i).

(10) For purposes of this subpart, the monitoring plan required by 63.122(b) shall be included in the Notification of Compliance Status required by 63.1335(e)(5).

(11) When the Notification of Compliance Status requirements contained in 63.152(b) are referred to in 63.120, 63.122, and 63.123, the Notification of Compliance Status requirements contained in 63.1335(e)(5) shall apply for the purposes of this subpart.

(12) When the Periodic Report requirements contained in 63.152(c) are referred to in 63.120 and 63.122, the Periodic Report requirements contained in 63.1335(e)(6) shall apply for the purposes of this subpart.

(13) When other reports as required in 63.152(d) are referred to in 63.122, the reporting requirements contained in 63.1335(e)(7) shall apply for the purposes of this subpart.

(14) When the Initial Notification requirements contained in 63.151(b) are referred to in 63.122, the owner or operator of an affected source subject to this subpart need not comply for the purposes of this subpart.

(15) When the determination of equivalence criteria in 63.102(b) is referred to in 63.121(a), the provisions in 63.6(g) shall apply for the purposes of this subpart.

(16) When 63.119(a) requires compliance according to the schedule provisions in 63.100, owners and operators of affected sources shall instead comply with the requirements in 63.119(a)(1) through 63.119(a)(4) by the compliance date for storage vessels, which is specified in 63.1311.

(17) In 63.120(e)(1), instead of the reference to 63.11(b), the requirements of 63.1333(e) shall apply.

35. [40 CFR 63.1314(b)]

Owners or operators of Group 1 storage vessels that are assigned to a new affected source producing styrene acrylonitrile (SAN) using a continuous process shall control emissions to the levels indicated in paragraphs (b)(1) and (b)(2) of 63.1314.

(1) For storage vessels with capacities greater than or equal to 2,271 cubic meters (m³) containing a liquid mixture having a vapor pressure greater than or equal to 0.5 kilopascal (kPa) but less than 0.7 kPa, emissions shall be controlled by at least 90 percent relative to uncontrolled emissions.

(2) For storage vessels with capacities less than 151 m³ containing a liquid mixture having a vapor pressure greater than or equal to 10 kPa, emissions shall be controlled by at least 98 percent relative to uncontrolled emissions.

(3) For all other storage vessels designated as Group 1 storage vessels, emissions shall be controlled to the level designated in 63.119.

36. [40 CFR 63.1314(c)]

Owners or operators of Group 1 storage vessels that are assigned to a new or existing affected source producing acrylonitrile styrene acrylate (ASA) / alpha methyl styrene acrylonitrile (AMSAN) shall control emissions by at least 98 percent relative to uncontrolled emissions.

37. [40 CFR 63.1314(d)]

The provisions of this subpart do not apply to storage vessels containing ethylene glycol at existing or new affected sources and storage vessels containing styrene at existing affected sources.

III. Monitoring and/or Record Keeping Requirements (continued)

38. [40 CFR 63.1315(a)]
Continuous Process Vents Provisions

For each continuous process vent located at an affected source, the owner or operator shall comply with the requirements of 63.113 through 63.118, with the differences noted in paragraphs (a)(1) through (a)(18) of 63.1315 for the purposes of this subpart, except as provided in paragraphs (b) through (e) of 63.1315.

(1) When the term "process vent" is used in 63.113 through 63.118, the term "continuous process vent," and the definition of this term in 63.1312 shall apply for the purposes of this subpart.

(2) When the term "Group 1 process vent" is used in 63.113 through 63.118, the term "Group 1 continuous process vent," and the definition of this term in 63.1312 shall apply for the purposes of this subpart.

(3) When the term "Group 2 process vent" is used in 63.113 through 63.118, the term "Group 2 continuous process vent," and the definition of this term in 63.1312 shall apply for the purposes of this subpart.

(4) When December 31, 1992 is referred to in 63.113, apply the date March 29, 1995, for the purposes of this subpart.

(5) When 63.151(f), alternative monitoring parameters, and 63.152(e), submission of an operating permit, are referred to in 63.114(c) and 63.117(e), 63.1335(f), alternative monitoring parameters, and 63.1335(e)(8), submission of an operating permit, respectively, shall apply for the purposes of this subpart.

(6) When the Notification of Compliance Status requirements contained in 63.152(b) are referred to in 63.114, 63.117, and 63.118, the Notification of Compliance Status requirements contained in 63.1335(e)(5) shall apply for the purposes of this subpart.

(7) When the Periodic Report requirements contained in 63.152(c) are referred to in 63.117 and 63.118, the Periodic Report requirements contained in 63.1335(e)(6) shall apply for the purposes of this subpart.

(8) When the definition of excursion in 63.152(c)(2)(ii)(A) is referred to in 63.118(f)(2), the definition of excursion in 63.1334(f) of this subpart shall apply for the purposes of this subpart.

(9) When 63.114(e) or 63.117(f) specifies that an owner or operator shall submit the information required in 63.152(b) in order to establish the parameter monitoring range, the owner or operator of an affected source shall comply with the provisions of 63.1335(e)(5) for purposes of reporting information related to establishment of the parameter monitoring level for purposes of this subpart. Further, the term "level" shall apply when the term "range" is used in 63.114, 63.117, and 63.118.

(10) When reports of process changes are required under 63.118(g), (h), (i), or (j), paragraphs (a)(10)(i) through (a)(10)(iv) of 63.1315 shall apply for the purposes of this subpart. In addition, for the purposes of this subpart, paragraph (a)(10)(v) of 63.1315 applies, and 63.118(k) does not apply to owners or operators of affected sources.

III. Monitoring and/or Record Keeping Requirements (continued)

(i) For the purposes of this subpart, whenever a process change, as defined in 63.115(e), is made that causes a Group 2 continuous process vent to become a Group 1 continuous process vent, the owner or operator shall submit a report within 180 days after the process change is made or with the next Periodic Report, whichever is later. A description of the process change shall be submitted with the report of the process change, and the owner or operator of the affected source shall comply with the Group 1 provisions in 63.113 through 63.118 in accordance with 63.1310(i)(2)(ii) or (i)(2)(iii), as applicable.

(ii) Whenever a process change, as defined in 63.115(e), is made that causes a Group 2 continuous process vent with a total resource effectiveness (TRE) greater than 4.0 to become a Group 2 continuous process vent with a TRE less than 4.0, the owner or operator shall submit a report within 180 days after the process change is made or with the next Periodic Report, whichever is later. A description of the process change shall be submitted with the report of the process change, and the owner or operator shall comply with the provisions in 63.113(d) by the dates specified in 63.1311.

(iii) Whenever a process change, as defined in 63.115(e), is made that causes a Group 2 continuous process vent with a flow rate less than 0.005 standard cubic meter per minute to become a Group 2 continuous process vent with a flow rate of 0.005 standard cubic meter per minute or greater and a TRE index value less than or equal to 4.0, the owner or operator shall submit a report within 180 days after the process change is made or with the next Periodic Report, whichever is later. A description of the process change shall be submitted with the report of the process change, and the owner or operator shall comply with the provisions in 63.113(d) by the dates specified in 63.1311.

(iv) Whenever a process change, as defined in 63.115(e), is made that causes a Group 2 continuous process vent with an organic HAP concentration less than 50 ppmv to become a Group 2 continuous process vent with an organic HAP concentration of 50 parts per million by volume or greater and a TRE index value less than or equal to 4.0, the owner or operator shall submit a report within 180 days after the process change is made or with the next Periodic Report, whichever is later. A description of the process change shall be submitted with the report of the process change, and the owner or operator shall comply with the provisions in 63.113(d) by the dates specified in 63.1311.

(v) The owner or operator is not required to submit a report of a process change if one of the conditions listed in paragraphs (a)(10)(v)(A), (a)(10)(v)(B), (a)(10)(v)(C), or (a)(10)(v)(D) of 63.1315 is met.

(A) The process change does not meet the definition of a process change in 63.115(e);

(B) The vent stream flow rate is recalculated according to 63.115(e) and the recalculated value is less than 0.005 standard cubic meter per minute;

(C) The organic HAP concentration of the vent stream is recalculated according to 63.115(e) and the recalculated value is less than 50 ppmv; or

(D) The TRE index value is recalculated according to 63.115(e) and the recalculated value is greater than 4.0, or for the affected sources producing methyl methacrylate butadiene styrene resin the recalculated value is greater than 6.7.

III. Monitoring and/or Record Keeping Requirements (continued)

(11) When the provisions of 63.116(c)(3) and (c)(4) specify that Method 18, 40 CFR part 60, appendix A shall be used, Method 18 or Method 25A, 40 CFR part 60, appendix A may be used for the purposes of this subpart. The use of Method 25A, 40 CFR part 60, appendix A shall conform with the requirements in paragraphs (a)(11)(i) and (a)(11)(ii) of 63.1315.

(i) The organic HAP used as the calibration gas for Method 25A, 40 CFR part 60, appendix A shall be the single organic HAP representing the largest percent by volume of the emissions.

(ii) The use of Method 25A, 40 CFR part 60, appendix A is acceptable if the response from the high-level calibration gas is at least 20 times the standard deviation of the response from the zero calibration gas when the instrument is zeroed on the most sensitive scale.

(12) When 63.118, periodic reporting and record keeping requirements, refers to 63.152(f), the record keeping requirements in 63.1335(d) shall apply for purposes of this subpart.

(13) If a batch process vent or aggregate batch vent stream is combined with a continuous process vent, the owner or operator of the affected source containing the combined vent stream shall comply with paragraph (a)(13)(i); with paragraph (a)(13)(ii) and with paragraph (a)(13)(iii) or (iv); or with paragraph (a)(13)(v) of 63.1315, as appropriate.

(i) If a batch process vent or aggregate batch vent stream is combined with a Group 1 continuous process vent prior to the combined vent stream being routed to a control device, the owner or operator of the affected source containing the combined vent stream shall comply with the requirements in paragraph (a)(13)(i)(A) or (B) of 63.1315.

(A) All requirements for a Group 1 process vent stream in 63.113 through 63.118, except as otherwise provided in this section. As specified in 63.1333(a)(1), performance tests shall be conducted at maximum representative operating conditions. For the purpose of conducting a performance test on a combined vent stream, maximum representative operating conditions shall be when batch emission episodes are occurring that result in the highest organic HAP emission rate (for the combined vent stream) that is achievable during one of the periods listed in 63.1333(a)(1)(i) or 63.1333(a)(1)(ii), without causing any of the situations described in paragraphs (a)(13)(i)(A)(1) through (3) to occur.

(1) Causing damage to equipment.

(2) Necessitating that the owner or operator make product that does not meet an existing specification for sale to a customer; or

(3) Necessitating that the owner or operator make product in excess of demand.

(B) Comply with the provisions in 63.1313(b)(1), as allowed under 63.1313(b).

(ii) If a batch process vent or aggregate batch vent stream is combined with a continuous process vent prior to the combined vent stream being routed to a recovery device, the TRE index value for the combined vent stream shall be calculated at the exit of the last recovery device. The TRE shall be calculated during periods when one or more batch emission episodes are occurring that result in the highest organic HAP emission rate (in the combined vent stream that is being routed to the recovery device) that is achievable during the 6-month period that begins 3 months before and ends 3 months after the TRE calculation, without causing any of the situations described in paragraphs (a)(13)(ii)(A) through (C) to occur.

III. Monitoring and/or Record Keeping Requirements (continued)

(A) Causing damage to equipment.

(B) Necessitating that the owner or operator make product that does not meet an existing specification for sale to a customer; or

(C) Necessitating that the owner or operator make product in excess of demand.

(iii) If the combined vent stream described in paragraph (a)(10)(ii) of 63.1315 meets the requirements in paragraphs (a)(13)(iii)(A), (B), and (C) of 63.1315, the combined vent stream shall be subject to the requirements for Group 1 process vents in 63.113 through 63.118, except as otherwise provided in 63.1315, as applicable. Performance tests for the combined vent stream shall be conducted at maximum operating conditions, as described in paragraph (a)(13)(i) of 63.1315.

(A) The TRE index value of the combined stream is less than or equal to 1.0;

(B) The flow rate of the combined vent stream is greater than or equal to 0.005 standard cubic meter per minute; and

(C) The total organic HAP concentration is greater than or equal to 50 ppmv for the combined vent stream.

(iv) If the combined vent stream described in paragraph (a)(10)(ii) of 63.1315 meets the requirements in paragraph (a)(13)(iv)(A), (B), or (C) of 63.1315, the combined vent stream shall be subject to the requirements for Group 2 process vents in 63.113 through 63.118, except as otherwise provided in 63.1315, as applicable.

(A) The TRE index value of the combined vent stream is greater than 1.0;

(B) The flow rate of the combined vent stream is less than 0.005 standard cubic meter per minute; or

(C) The total organic HAP concentration is less than 50 ppmv for the combined vent stream.

(v) If a batch process vent or aggregate batch vent stream is combined with a Group 2 continuous process vent, the owner or operator shall comply with the requirements in either paragraph (a)(13)(v)(A) or (a)(13)(v)(B) of 63.1315.

(A) The owner or operator shall comply with the requirements in 63.113 through 63.118 for Group 1 process vents; or

(B) The owner or operator shall comply with 63.1322(e)(2) for batch process vents and aggregate batch vent streams.

(14) If any gas stream that originates outside of an affected source that is subject to this subpart is normally conducted through the same final recovery device as any continuous process vent stream subject to this subpart, the owner or operator of the affected source with the combined vent stream shall comply with all requirements in 63.113 through 63.118 of subpart G of this part, except as otherwise noted in 63.1315, as applicable.

(i) Instead of measuring the vent stream flow rate at the sampling site specified in 63.115(b)(1), the sampling site for vent stream flow rate shall be prior to the final recovery device and prior to the point at which the gas stream that is not controlled under this subpart is introduced into the combined vent stream.

(ii) Instead of measuring total organic HAP or TOC concentrations at the sampling site specified in 63.115(c)(1), the sampling site for total organic HAP or TOC concentration shall be prior to the final recovery device and prior to the point at which the gas stream that is not controlled under this subpart is introduced into the combined vent stream.

III. Monitoring and/or Record Keeping Requirements (continued)

(iii) The efficiency of the final recovery device (determined according to paragraph (a)(14)(iv) of 63.1315) shall be applied to the total organic HAP or TOC concentration measured at the sampling site described in paragraph (a)(14)(ii) of 63.1315 to determine the exit concentration. This exit concentration of total organic HAP or TOC shall then be used to perform the calculations outlined in 63.115(d)(2)(iii) and 63.115(d)(2)(iv), for the combined vent stream exiting the final recovery device.

(iv) The efficiency of the final recovery device is determined by measuring the total organic HAP or TOC concentration using Method 18 or 25A, 40 CFR part 60, appendix A, at the inlet to the final recovery device after the introduction of any gas stream that is not controlled under this subpart, and at the outlet of the final recovery device.

(15) When 63.115(c)(3)(ii)(B) and (d)(2)(iv) and 63.116(c)(3)(ii)(B) and (c)(4)(ii)(C) refer to Table 2 of subpart F of this part, the owner or operator is only required to consider organic HAP listed on Table 6 of this subpart for purposes of this subpart.

(16) The compliance date for continuous process vents subject to the provisions of 63.1315 is specified in 63.1311.

(17) In 63.116(a), instead of the reference to 63.11(b), the requirements in 63.1333(e) shall apply.

(18) When a combustion device is used to comply with the 20 ppmv outlet concentration standard specified in 63.113(a)(2), the correction to 3 percent oxygen is only required when supplemental combustion air is used to combust the emissions, for the purposes of this subpart. In addition, the correction to 3 percent oxygen specified in 63.116(c)(3) and (c)(3)(iii) is only required when supplemental combustion air is used to combust the emissions, for the purposes of this subpart. Finally, when a combustion device is used to comply with the 20 ppmv outlet concentration standard specified in 63.113(a)(2), an owner or operator shall record and report the outlet concentration required in 63.117(a)(4)(ii) and (a)(4)(iv) corrected to 3 percent oxygen when supplemental combustion air is used to combust the emissions, for the purposes of this subpart. When supplemental combustion air is not used to combust the emissions, an owner or operator may record and report the outlet concentration required in 63.117(a)(4)(ii) and (a)(4)(iv) on an uncorrected basis or corrected to 3 percent oxygen, for the purposes of this subpart.

39. [40 CFR 63.1315(b)]

Owners or operators of existing affected sources producing methyl methacrylate butadiene styrene (MBS) shall comply with either paragraph (b)(1) or (b)(2) of 63.1315.

(1) Comply with paragraph (a) of 63.1315, as specified in paragraphs (b)(1)(i) and (b)(1)(ii).

(i) As specified in 63.1312, Group 1 continuous process vents at MBS existing affected sources are those with a total resource effectiveness value less than or equal to 3.7.

(ii) When complying with this paragraph (b) and the term "TRE of 4.0" is used, or related terms indicating a TRE index value of 4.0, referred to in 63.113 through 63.118, are used, the term "TRE of 6.7," shall apply instead, for the purposes of this subpart. The TRE range of 3.7 to 6.7 for continuous process vents at existing affected sources producing MBS corresponds to the TRE range of 1.0 to 4.0 for other continuous process vents, as it applies to monitoring, record keeping, and reporting.

(2) Not allow organic HAP emissions from the collection of continuous process vents at the affected source to be greater than 0.000590 kg organic HAP/Mg of product. Compliance with this paragraph (b)(2) shall be determined using the procedures specified in 63.1333(b).

40. [40 CFR 63.1315(c)]

Owners or operators of new affected sources producing SAN using a batch process shall comply with the applicable requirements in 63.1321.

III. Monitoring and/or Record Keeping Requirements (continued)

- 41.** [40 CFR 63.1315(d)]
Affected sources producing poly ethylene terephthalate (PET) or polystyrene using a continuous process are subject to the emissions control provisions of 63.1316, the monitoring provisions of 63.1317, the testing and compliance demonstration provisions of 63.1318, the recordkeeping provisions of 63.1319, and the reporting provisions of 63.1320. However, in some instances as specified in 63.1316, select continuous process vents present at affected sources producing PET or polystyrene using a continuous process are subject to the provisions of 63.1315.
- 42.** [40 CFR 63.1315(e)]
Owners or operators of affected sources producing ASA/AMSAN shall reduce organic HAP emissions from each continuous process vent, each batch process vent, and each aggregate batch vent stream by 98 weight-percent and shall comply with either paragraph (e)(1), (e)(2), or (e)(3), as appropriate. Where batch process vents or aggregate batch vent streams are combined with continuous process vents, the provisions of paragraph (a)(13) of 63.1315 shall apply for the purposes of this paragraph (e).
- (1) For each continuous process vent, comply with paragraph (a) of 63.1315 as specified in paragraphs (e)(1)(i) through (e)(1)(ii) of 63.1315.
- (i) For purpose of 63.1315, each continuous process vent shall be considered to be a Group 1 continuous process vent and the owner or operator of that continuous process vent shall comply with the requirements for a Group 1 continuous process vent.
- (ii) For purposes of 63.1315, the group determination procedure required by 63.115 shall not apply.
- (2) For each batch process vent, comply with 63.1321 through 63.1327 as specified in paragraphs (e)(2)(i) through (e)(2)(ii) of 63.1315.
- (i) For purpose of 63.1315, each batch process vent shall be considered to be a Group 1 batch process vent and the owner or operator of that batch process vent shall comply with the requirements for a Group 1 batch process vent contained in 63.1321 through 63.1327, except that each batch process vent shall be controlled to reduce organic HAP emissions by 98 weight-percent.
- (ii) For purposes of 63.1315, the group determination procedure required by 63.1323 shall not apply.
- (3) For each aggregate batch vent stream, comply with 63.1321 through 63.1327 as specified in paragraphs (e)(3)(i) through (e)(3)(ii) of 63.1315.
- (i) For purpose of 63.1315, each aggregate batch vent stream shall be considered to be a Group 1 aggregate batch vent stream and the owner or operator of that aggregate batch vent stream shall comply with the requirements for a Group 1 aggregate batch vent stream contained in 63.1321 through 63.1327, except that each aggregate batch vent stream shall be controlled to reduce organic HAP emissions by 98 weight-percent.
- (ii) For purposes of 63.1315, the group determination procedure required by 63.1323 shall not apply.
- 43.** [40 CFR 63.1317]
PET and Polystyrene Affected Sources - Monitoring Provisions
- Continuous process vents using a control or recovery device to comply with 63.1316 shall comply with the applicable monitoring provisions specified for continuous process vents in 63.1315(a), except that references to group determinations (i.e., total resource effectiveness) do not apply and owners or operators are not required to comply with 63.113.
- 44.** [40 CFR 63.1319(a)]
PET and Polystyrene Affected Sources - Recordkeeping Provisions
- Owners or operators using a control or recovery device to comply with 63.1316 shall comply with the applicable record keeping provisions specified in 63.1315(a), except that, for the purposes of this paragraph (a), references to group determinations (i.e., total resource effectiveness) do not apply, and owners or operators are not required to comply with 63.113.

III. Monitoring and/or Record Keeping Requirements (continued)

45. [40 CFR 63.1328]
Heat Exchange Systems Provisions

(a) Except as specified in paragraph (b) of 63.1328, each owner or operator of an affected source shall comply with 63.104, with the differences noted in paragraphs (c) through (h) of 63.1328, for the purposes of this subpart.

(b) The provisions of paragraph (a) of 63.1328 do not apply to each process contact cooling tower that is associated with an existing affected source manufacturing PET.

(c) When the term "chemical manufacturing process unit" is used in 63.104, the term "thermoplastic product process unit (TPPU)" shall apply for purposes of this subpart, with the exception noted in paragraph (d) of 63.1328.

(d) When the phrase "a chemical manufacturing process unit meeting the conditions of 63.100(b)(1) through (b)(3) of this subpart, except for chemical manufacturing process units meeting the condition specified in 63.100(c) of this subpart" is used in 63.104(a), the term "a TPPU, except for TPPUs meeting the condition specified in 63.1310(b)" shall apply for purposes of this subpart.

(e) When 63.104 refers to Table 4 of subpart F of this part or Table 9 of subpart G of this part, the owner or operator is only required to consider organic HAP listed on Table 6 of this subpart, except for ethylene glycol which need not be considered under 63.1328, for purposes of this subpart.

(f) When 63.104(c)(3) specifies the monitoring plan retention requirements, and when 63.104(f)(1) refers to the record retention requirements in 63.103(c)(1), the requirements in 63.1335(a) and 63.1335(h) shall apply, for purposes of this subpart.

(g) When 63.104(f)(2) requires information to be reported in the Periodic Reports required by 63.152(c), the owner or operator shall instead report the information specified in 63.104(f)(2) in the Periodic Reports required by 63.1335(e)(6), for the purposes of this subpart.

(h) The compliance date for heat exchange systems subject to the provisions of 63.1328 is specified in 63.1311.

46. [40 CFR 63.1331(a)]
Equipment Leak Provisions

The owner or operator of each affected source shall comply with the requirements of subpart H of this part, with the differences noted in paragraphs (a)(1) through (a)(13) of 63.1331.

(1) For an affected source producing polystyrene resin, the indications of liquids dripping, as defined in subpart H of this part, from bleed ports in pumps and agitator seals in light liquid service shall not be considered to be a leak. For purposes of this subpart, a "bleed port" is a technologically-required feature of the pump or seal whereby polymer fluid used to provide lubrication and/or cooling of the pump or agitator shaft exits the pump, thereby resulting in a visible dripping of fluid.

(2) The compliance date for the equipment leak provisions contained in 63.1331 is provided in 63.1311. Whenever subpart H of this part refers to the compliance dates specified in any paragraph contained in 63.100, the compliance dates listed in 63.1311(d) shall instead apply, for the purposes of this subpart. When 63.182(c)(4) refers to "sources subject to subpart F," the phrase "sources subject to this subpart" shall apply, for the purposes of this subpart. In addition, extensions of compliance dates are addressed by 63.1311(e) instead of 63.182(a)(6), for the purposes of this subpart.

(3) Owners and operators of an affected source subject to this subpart are not required to submit the Initial Notification required by 63.182(a)(1) and 63.182(b).

(4) As specified in 63.1335(e)(5), the Notification of Compliance Status required by paragraphs 63.182(a)(2) and 63.182(c) shall be submitted within 150 days (rather than 90 days) of the applicable compliance date specified in 63.1311 for the equipment leak provisions.

III. Monitoring and/or Record Keeping Requirements (continued)

(5) The information specified by 63.182(a)(3) and 63.182(d) (i.e., Periodic Reports) shall be submitted as part of the Periodic Reports required by 63.1335(e)(6).

(i) A leak is determined to be detected if there is evidence of a potential leak found by visual, audible, or olfactory means. Method 21, 40 CFR part 60, appendix A may not be used to determine the presence or absence of a leak.

(ii)(A) When a leak is detected, it shall be repaired as soon as practical, but not later than 15 days after it is detected, except as provided in 63.171.

(B) The first attempt at repair shall be made no later than 5 days after each leak is detected.

(C) Repaired shall mean that the visual, audible, olfactory, or other indications of a leak have been eliminated; that no bubbles are observed at potential leak sites during a leak check using soap solution; or that the system will hold a test pressure.

(iii) An owner or operator is not required to develop an initial list of identification numbers as would otherwise be required under 63.181(b)(1)(i) or 63.181(b)(4).

(iv) When recording the detection of a leak under 63.182(d)(1), the owner or operator of an affected source shall comply with paragraphs (a)(6)(iv)(A) through (a)(6)(iv)(B) of 63.1331.

(A) When complying with 63.181(d)(1), provide an identification number for the leaking equipment at the time of recordkeeping. Further, the owner or operator is not required to record the identification number of the instrument (i.e., Method 21 instrument) because the use of Method 21 is not an acceptable method for determining a leak under this paragraph (a)(6).

(B) An owner or operator is not required to comply with 63.181(d)(4) which requires a record of the maximum instrument reading measured by Method 21 of 40 CFR part 60, appendix A.

(v) Indications of liquids dripping, as defined in subpart H of this part, from packing glands for pumps in ethylene glycol service where the pump seal is designed to weep fluid shall not be considered to be a leak. Ethylene glycol dripping from pump seals must be captured in a catchpan and returned to the process.

(6) For pumps, valves, connectors, and agitators in heavy liquid service; pressure relief devices in light liquid or heavy liquid service; and instrumentation systems; owners or operators of affected sources producing PET shall comply with the requirements of paragraphs (a)(6)(i) and (ii) of this section instead of with the requirements of 63.139. Owners or operators of PET affected sources shall comply with all other provisions of Subpart H of this part for pumps, valves, connectors, and agitators in heavy liquid service; pressure relief devices in light liquid or heavy liquid service; and instrumentation systems, except as specified in paragraphs (a)(6)(iii) through (v) of 63.1331.

(i) A leak is determined to be detected if there is evidence of a potential leak found by visual, audible, or olfactory means. Method 21, 40 CFR part 60, appendix A may not be used to determine the presence or absence of a leak.

(ii)(A) When a leak is detected, it shall be repaired as soon as practical, but not later than 15 days after it is detected, except as provided in 63.171.

(B) The first attempt at repair shall be made no later than 5 days after each leak is detected.

(iii) An owner or operator is not required to develop an initial list of identification numbers as would otherwise be required under 63.181(b)(1)(i) or 63.181(b)(4).

(iv) When recording the detection of a leak under 63.182(d)(1), the owner or operator of an affected source shall comply with paragraphs (a)(6)(iv)(A) through (a)(6)(iv)(B) of 63.1331.

III. Monitoring and/or Record Keeping Requirements (continued)

(A) When complying with 63.181(d)(1), provide an identification number for the leaking equipment at the time of recordkeeping. Further, the owner or operator is not required to record the identification number of the instrument (i.e., Method 21 instrument) because the use of Method 21 is not an acceptable method for determining a leak under this paragraph (a)(6).

(B) An owner or operator is not required to comply with 63.181(d)(4) which requires a record of the maximum instrument reading measured by Method 21 of 40 CFR part 60, appendix A.

(v) Indications of liquids dripping, as defined in subpart H of this part, from packing glands for pumps in ethylene glycol service where the pump seal is designed to weep fluid shall not be considered to be a leak. Ethylene glycol dripping from pump seals must be captured in a catchpan and returned to the process.

(7) When 63.166(b)(4)(i) refers to Table 9 of subpart G of this part, the owner or operator is only required to consider organic HAP listed on Table 6 of this subpart for purposes of this subpart, except for ethylene glycol which need not be considered.

(8) When the provisions of subpart H of this part specify that Method 18, 40 CFR part 60, appendix A, shall be used, Method 18 or Method 25A, 40 CFR part 60, appendix A, may be used for the purposes of this subpart. The use of Method 25A, 40 CFR part 60, appendix A, shall conform with the requirements in paragraphs (a)(8)(i) and (a)(8)(ii) of 63.1331.

(i) The organic HAP used as the calibration gas for Method 25A, 40 CFR part 60, appendix A, shall be the single organic HAP representing the largest percent by volume of the emissions.

(ii) The use of Method 25A, 40 CFR part 60, appendix A, is acceptable if the response from the high-level calibration gas is at least 20 times the standard deviation of the response from the zero calibration gas when the instrument is zeroed on the most sensitive scale.

(9) Paragraph (a)(9) of 63.1331 is reserved.

(10) If specific items of equipment, comprising part of a process unit subject to this subpart, are managed by different administrative organizations (e.g., different companies, affiliates, departments, divisions, etc.), those items of equipment may be aggregated with any TPPU within the affected source for all purposes under subpart H of this part, providing there is no delay in achieving the applicable compliance date.

(11) When the terms "equipment" and "equipment leak" are used in subpart H of this part, the definitions of these terms in 63.1312 shall apply for the purposes of this subpart.

(12) The phrase "the provisions of subparts F, I, or JJJ of this part" shall apply instead of the phrase "the provisions of subpart F or I of this part" throughout 63.163 and 63.168, for the purposes of this subpart. In addition, the phrase "subparts F, I, and JJJ" shall apply instead of the phrase "subparts F and I" in 63.174(c)(2)(iii), for the purposes of this subpart.

(13) An owner or operator using a flare to comply with the requirements of 63.1331 shall conduct a compliance demonstration as specified in 63.1333(e).

47. [40 CFR 63.1334(a)] Parameter Monitoring Levels and Excursions

Establishment of parameter monitoring levels. The owner or operator of a control or recovery device that has one or more parameter monitoring level requirements specified under this subpart shall establish a maximum or minimum level for each measured parameter. If a performance test is required by this subpart for a control device, the owner or operator shall use the procedures in either paragraph (b) or (c) of 63.1334 to establish the parameter monitoring level(s). If a performance test is not required by this subpart for a control device, the owner or operator may use the procedures in paragraph (b), (c) or (d) of 63.1334 to establish the parameter monitoring level(s). When using the procedures specified in paragraph (c) or (d) of 63.1334, the owner or operator shall submit the information specified in 63.1335(e)(3)(vii) for review and approval as part of the Precompliance Report.

III. Monitoring and/or Record Keeping Requirements (continued)

(1) The owner or operator shall operate control and recovery devices such that the daily average of monitored parameters remains above the minimum established level or below the maximum established level, except as otherwise stated in this subpart.

(2) As specified in 63.1335(e)(5), all established levels, along with their supporting documentation and the definition of an operating day, shall be submitted as part of the Notification of Compliance Status.

(3) Nothing in 63.1334 shall be construed to allow a monitoring parameter excursion caused by an activity that violates other applicable provisions of subpart A, F, G, or H of this part.

48. [40 CFR 63.1334(b)]

Establishment of parameter monitoring levels based exclusively on performance tests. In cases where a performance test is required by this subpart, or the owner or operator of the affected source elects to do a performance test in accordance with the provisions of this subpart, and an owner or operator elects to establish a parameter monitoring level for a control, recovery, or recapture device based exclusively on parameter values measured during the performance test, the owner or operator of the affected source shall comply with the procedures in paragraphs (b)(1) through (b)(4) of 63.1334, as applicable.

(1) Paragraph (b)(1) of 63.1334 is reserved.

(2) Continuous process vents. During initial compliance testing, the appropriate parameter shall be continuously monitored during the required 1-hour runs. The monitoring level(s) shall then be established as the average of the maximum (or minimum) point values from the three test runs. The average of the maximum values shall be used when establishing a maximum level, and the average of the minimum values shall be used when establishing a minimum level.

(3) Batch process vents. The monitoring level(s) shall be established using the procedures specified in either paragraph (b)(3)(i) or (b)(3)(ii) of 63.1334. The procedures specified in this paragraph (b)(3) may only be used if the batch emission episodes, or portions thereof, selected to be controlled were tested, and monitoring data were collected, during the entire period in which emissions were vented to the control device, as specified in 63.1325(c)(1)(i). If the owner or operator chose to test only a portion of the batch emission episode, or portion thereof, selected to be controlled, the procedures in paragraph (c) of 63.1334 shall be used.

(i) If more than one batch emission episode or more than one portion of a batch emission episode has been selected to be controlled, a single level for the batch cycle shall be calculated as follows:

(A) The average monitored parameter value shall be calculated for each batch emission episode, or portion thereof, in the batch cycle selected to be controlled. The average shall be based on all values measured during the required performance test.

(B) If the level to be established is a maximum operating parameter, the level shall be defined as the minimum of the average parameter values of the batch emission episodes, or portions thereof, in the batch cycle selected to be controlled (i.e., identify the emission episode, or portion thereof, which requires the lowest parameter value in order to assure compliance. The average parameter value that is necessary to assure compliance for that emission episode, or portion thereof, shall be the level for all emission episodes, or portions thereof, in the batch cycle, that are selected to be controlled).

III. Monitoring and/or Record Keeping Requirements (continued)

(C) If the level to be established is a minimum operating parameter, the level shall be defined as the maximum of the average parameter values of the batch emission episodes, or portions thereof, in the batch cycle selected to be controlled (i.e., identify the emission episode, or portion thereof, which requires the highest parameter value in order to assure compliance. The average parameter value that is necessary to assure compliance for that emission episode, or portion thereof, shall be the level for all emission episodes, or portions thereof, in the batch cycle, that are selected to be controlled).

(D) Alternatively, an average monitored parameter value shall be calculated for the entire batch cycle based on all values measured during each batch emission episode, or portion thereof, selected to be controlled.

(ii) Instead of establishing a single level for the batch cycle, as described in paragraph (b)(3)(i) of 63.1334, an owner or operator may establish separate levels for each batch emission episode, or portion thereof, selected to be controlled. Each level shall be determined as specified in paragraph (b)(3)(i)(A) of 63.1334.

(iii) The batch cycle shall be defined in the Notification of Compliance Status, as specified in 63.1335(e)(5). Said definition shall include an identification of each batch emission episode and the information required to determine parameter monitoring compliance for partial batch cycles (i.e., when part of a batch cycle is accomplished during two different operating days).

(4) Aggregate batch vent streams. For aggregate batch vent streams, the monitoring level shall be established in accordance with paragraph (b)(2) of 63.1334.

49. [40 CFR 63.1334(c)]
Establishment of parameter monitoring levels based on performance tests, supplemented by engineering assessments and/or manufacturer's recommendations. In cases where a performance test is required by this subpart, or the owner or operator elects to do a performance test in accordance with the provisions of this subpart, and an owner or operator elects to establish a parameter monitoring level for a control, recovery, or recapture device under this paragraph (c), the owner or operator shall supplement the parameter values measured during the performance test with engineering assessments and/or manufacturer's recommendations. Performance testing is not required to be conducted over the entire range of expected parameter values.
50. [40 CFR 63.1334(d)]
Establishment of parameter monitoring based on engineering assessments and/or manufacturer's recommendations. In cases where a performance test is not required by this subpart and an owner or operator elects to establish a parameter monitoring level for a control, recovery, or recapture device under this paragraph (d), the determination of the parameter monitoring level shall be based exclusively on engineering assessments and/or manufacturer's recommendations.
51. [40 CFR 63.1334(e)]
Paragraph (e) of 63.1334 is reserved.

III. Monitoring and/or Record Keeping Requirements (continued)

52. [40 CFR 63.1334(f)]

Parameter monitoring excursion definitions. (1) With respect to storage vessels (where the applicable monitoring plan specifies continuous monitoring), continuous process vents, aggregate batch vent streams, and process wastewater streams, an excursion means any of the three cases listed in paragraphs (f)(1)(i) through (f)(1)(iii) of 63.1334. For a control or recovery device where multiple parameters are monitored, if one or more of the parameters meets the excursion criteria in paragraphs (f)(1)(i) through (f)(1)(iii) of 63.1334, this is considered a single excursion for the control or recovery device. For each excursion, the owner or operator shall be deemed out of compliance with the provisions of this subpart, except as provided in paragraph (g) of 63.1334.

(i) When the daily average value of one or more monitored parameters is above the maximum level or below the minimum level established for the given parameters.

(ii) When the period of control or recovery device operation, with the exception noted in paragraph (f)(1)(v) of 63.1334, is 4 hours or greater in an operating day, and monitoring data are insufficient, as defined in paragraph (f)(1)(iv) of 63.1334, to constitute a valid hour of data for at least 75 percent of the operating hours.

(iii) When the period of control or recovery device operation, with the exception noted in paragraph (f)(1)(v) of 63.1334, is less than 4 hours in an operating day and more than two of the hours during the period of operation do not constitute a valid hour of data due to insufficient monitoring data, as defined in paragraph (f)(1)(iv) of 63.1334.

(iv) Monitoring data are insufficient to constitute a valid hour of data, as used in paragraphs (f)(1)(ii) and (f)(1)(iii) of 63.1334, if measured values are unavailable for any of the 15-minute periods within the hour. For data compression systems approved under 63.1335(g)(3), monitoring data are insufficient to calculate a valid hour of data if there are less than four data measurements made during the hour.

(v) The periods listed in paragraphs (f)(1)(v)(A) through (f)(1)(v)(E) of 63.1334 are not considered to be part of the period of control or recovery device operation, for the purposes of paragraphs (f)(1)(ii) and (f)(1)(iii) of 63.1334.

(A) Monitoring system breakdowns, repairs, calibration checks, and zero (low-level) and high-level adjustments;

(B) Start-ups;

(C) Shutdowns;

(D) Malfunctions; or

(E) Periods of non-operation of the affected source (or portion thereof), resulting in cessation of the emissions to which the monitoring applies.

III. Monitoring and/or Record Keeping Requirements (continued)

- 53.** [40 CFR 63.1334(g)]
Excused excursions. A number of excused excursions shall be allowed for each control or recovery device for each semiannual period. The number of excused excursions for each semiannual period is specified in paragraphs (g)(1) through (g)(6) of 63.1334. This paragraph (g) applies to affected sources required to submit Periodic Reports semiannually or quarterly. The first semiannual period is the 6-month period starting the date the Notification of Compliance Status is due.
- (1) For the first semiannual period -- six excused excursions.
 - (2) For the second semiannual period -- five excused excursions.
 - (3) For the third semiannual period -- four excused excursions.
 - (4) For the fourth semiannual period -- three excused excursions.
 - (5) For the fifth semiannual period -- two excused excursions.
 - (6) For the sixth and all subsequent semiannual periods -- one excused excursion.
- 54.** [40 CFR 63.1335(a)]
General Record keeping and Reporting Provisions
- Data retention. Unless otherwise specified in this subpart, the owner or operator of an affected source shall keep copies of all applicable records and reports required by this subpart for at least 5 years, as specified in paragraph (a)(1) of 63.1335, with the exception listed in paragraph (a)(2) of 63.1335.
- (1) All applicable records shall be maintained in such a manner that they can be readily accessed. The most recent 6 months of records shall be retained on site or shall be accessible from a central location by computer or other means that provides access within 2 hours after a request. The remaining 4 and one-half years of records may be retained offsite. 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.
 - (2) If an owner or operator submits copies of reports to the appropriate EPA Regional Office, the owner or operator is not required to maintain copies of reports. If the EPA Regional Office has waived the requirement of 63.10(a)(4)(ii) for submittal of copies of reports, the owner or operator is not required to maintain copies of those reports.
- 55.** [40 CFR 63.1335(b)]
Requirements of subpart A of this part. The owner or operator of an affected source shall comply with the applicable record keeping and reporting requirements in subpart A of this part as specified in Table 1 of this subpart. These requirements include, but are not limited to, the requirements specified in paragraphs (b)(1) and (b)(2) of 63.1335.
- (1) Start-up, shutdown, and malfunction plan. The owner or operator of an affected source shall develop and implement a written start-up, shutdown, and malfunction plan as specified in 63.6(e)(3). This plan shall describe, in detail, procedures for operating and maintaining the affected source during periods of start-up, shutdown, and malfunction and a program for corrective action for malfunctioning process and air pollution control equipment used to comply with this subpart. Inclusion of Group 2 emission points is not required, unless these points are included in an emissions average. For equipment leaks (subject to 63.1331), the start-up, shutdown, and malfunction plan requirement is limited to control devices and is optional for other equipment. For equipment leaks, the start-up, shutdown, and malfunction plan may include written procedures that identify conditions that justify a delay of repair. A provision for ceasing to collect, during a start-up, shutdown, or malfunction, monitoring data that would otherwise be required by the provisions of this subpart may be included in the start-up, shutdown, and malfunction plan only if the owner or operator has demonstrated to the Administrator, through the Precompliance Report or a supplement to the Precompliance Report, that the monitoring system would be damaged or destroyed if it were not shut down during the start-up, shutdown, or malfunction. The affected source shall keep the start-up, shutdown, and malfunction plan on-site.

III. Monitoring and/or Record Keeping Requirements (continued)

Records associated with the plan shall be kept as specified in paragraphs (b)(1)(i)(A) through (b)(1)(i)(C) of 63.1335. Reports related to the plan shall be submitted as specified in paragraph (b)(1)(ii) of 63.1335.

(i) Records of start-up, shutdown, and malfunction. The owner or operator shall keep the records specified in paragraphs (b)(1)(i)(A) through (b)(1)(i)(C) of 63.1335.

(A) Records of the occurrence and duration of each start-up, shutdown, and malfunction of operation of process equipment or control devices or recovery devices or continuous monitoring systems used to comply with this subpart during which excess emissions (as defined in 63.1310(j)(4)) occur.

(B) For each start-up, shutdown, or malfunction during which excess emissions (as defined in 63.1310(j)(4)) occur, records reflecting whether the procedures specified in the affected source's start-up, shutdown, and malfunction plan were followed, and documentation of actions taken that are not consistent with the plan. For example, if a start-up, shutdown, and malfunction plan includes procedures for routing a control device to a backup control device, records shall be kept of whether the plan was followed. These records may take the form of a "checklist," or other form of recordkeeping that confirms conformance with the start-up shutdown, and malfunction plan for the event.

(C) Records specified in paragraphs (b)(1)(i)(A) through (b)(1)(i)(B) of 63.1335 are not required if they pertain solely to Group 2 emission points that are not included in an emissions average.

(2) Application for approval of construction or reconstruction. For new affected sources, each owner or operator shall comply with the provisions in 63.5 regarding construction and reconstruction, excluding the provisions specified in 63.5(d)(1)(ii)(H), (d)(1)(iii), (d)(2), and (d)(3)(ii).

56. [40 CFR 63.1335(c)]
Paragraph (c) of 63.1335 is reserved.

57. [40 CFR 63.1335(d)]
Record keeping and documentation. Owners or operators required to keep continuous records shall keep records as specified in paragraphs (d)(1) through (d)(7) of 63.1335, unless an alternative record keeping system has been requested and approved as specified in paragraph (g) of 63.1335, and except as provided in paragraph (h) of 63.1335. If a monitoring plan for storage vessels pursuant to 63.1314(a)(9) requires continuous records, the monitoring plan shall specify which provisions, if any, of paragraphs (d)(1) through (d)(7) of 63.1335 apply. As described in 63.1314(a)(9), certain storage vessels are not required to keep continuous records as specified in this paragraph. Owners and operators of such storage vessels shall keep records as specified in the monitoring plan required by 63.1314(a)(9). Paragraphs (d)(8) and (d)(9) of 63.1335 specify documentation requirements.

(1) The monitoring system shall measure data values at least once every 15 minutes.

III. Monitoring and/or Record Keeping Requirements (continued)

(2) The owner or operator shall record either each measured data value or block average values for 1 hour or shorter periods calculated from all measured data values during each period. If values are measured more frequently than once per minute, a single value for each minute may be used to calculate the hourly (or shorter period) block average instead of all measured values. Owners or operators of batch process vents shall record each measured data value.

(3) Daily average (or batch cycle daily average) values of each continuously monitored parameter shall be calculated for each operating day as specified in paragraphs (d)(3)(i) through (d)(3)(ii) of 63.1335, except as specified in paragraphs (d)(6) and (d)(7) of 63.1335.

(i) The daily average value or batch cycle daily average shall be calculated as the average of all parameter values recorded during the operating day, except as specified in paragraph (d)(7) of 63.1335. For batch process vents, as specified in 63.1326(e)(2)(i), only parameter values measured during those batch emission episodes, or portions thereof, in the batch cycle that the owner or operator has chosen to control shall be used to calculate the average. The calculated average shall cover a 24-hour period if operation is continuous, or the number of hours of operation per operating day if operation is not continuous.

(ii) The operating day shall be the period the owner or operator specifies in the operating permit or the Notification of Compliance Status for purposes of determining daily average values or batch cycle daily average values of monitored parameters.

(4) Paragraph (d)(4) of 63.1335 is reserved.

(5) Paragraph (d)(5) of 63.1335 is reserved.

(6) Records required when all recorded values are within the established limits. If all recorded values for a monitored parameter during an operating day are above the minimum level or below the maximum level established in the Notification of Compliance Status or operating permit, the owner or operator may record that all values were above the minimum level or below the maximum level rather than calculating and recording a daily average (or batch cycle daily average) for that operating day.

(7) Monitoring data recorded during periods identified in paragraphs (d)(7)(i) through (d)(7)(v) of 63.1335 shall not be included in any average computed under this subpart. Records shall be kept of the times and durations of all such periods and any other periods during process or control device or recovery device operation when monitors are not operating.

(i) Monitoring system breakdowns, repairs, calibration checks, and zero (low-level) and high-level adjustments;

(ii) Start-ups;

(iii) Shutdowns;

(iv) Malfunctions;

(v) Periods of non-operation of the affected source (or portion thereof), resulting in cessation of the emissions to which the monitoring applies.

(8) For continuous monitoring systems used to comply with this subpart, records documenting the completion of calibration checks, and records documenting the maintenance of continuous monitoring systems that are specified in the manufacturer's instructions or that are specified in other written procedures that provide adequate assurance that the equipment would reasonably be expected to monitor accurately.

(9) The owner or operator of an affected source granted a waiver under 63.10(f) shall maintain the information, if any, specified by the Administrator as a condition of the waiver of record keeping or reporting requirements.

III. Monitoring and/or Record Keeping Requirements (continued)

58. [40 CFR 63.1335(f)]

Alternative monitoring parameters. The owner or operator who has been directed by any section of this subpart or any section of another subpart referenced by this subpart, that expressly referenced this paragraph (f) to set unique monitoring parameters, or who requests approval to monitor a different parameter than those specified in 63.1314 for storage vessels, 63.1315 or 63.1317, as appropriate, for continuous process vents, 63.1321 for batch process vents and aggregate batch vent streams, or 63.1330 for process wastewater shall submit the information specified in paragraphs (f)(1) through (f)(3) of 63.1335 in the Precompliance Report, as required by paragraph (e)(3) of 63.1335. The owner or operator shall retain for a period of 5 years each record required by paragraphs (f)(1) through (f)(3) of 63.1335.

(1) The required information shall include a description of the parameter(s) to be monitored to ensure the recovery device, control device, or pollution prevention measure is operated in conformance with its design and achieves the specified emission limit, percent reduction, or nominal efficiency, and an explanation of the criteria used to select the parameter(s).

(2) The required information shall include a description of the methods and procedures that will be used to demonstrate that the parameter indicates proper operation, the schedule for this demonstration, and a statement that the owner or operator will establish a level for the monitored parameter as part of the Notification of Compliance Status report required in paragraph (e)(5) of 63.1335, unless this information has already been included in the operating permit application.

(3) The required information shall include a description of the proposed monitoring, record keeping, and reporting system, to include the frequency and content of monitoring, record keeping, and reporting. Further, the rationale for the proposed monitoring, recordkeeping, and reporting system shall be included if either condition in paragraph (f)(3)(i) or (f)(3)(ii) of 63.1335 is met:

(i) If monitoring and recordkeeping is not continuous; or

(ii) If reports of daily average values will not be included in Periodic Reports when the monitored parameter value is above the maximum level or below the minimum level as established in the operating permit or the Notification of Compliance Status.

59. [40 CFR 63.1335(g)]

Alternative continuous monitoring and record keeping. An owner or operator choosing not to implement the provisions listed in 63.1315 or 63.1317, as appropriate, for continuous process vents, 63.1321 for batch process vents and aggregate batch vent streams, or 63.1330 for process wastewater, may instead request approval to use alternative continuous monitoring and record keeping provisions according to the procedures specified in paragraphs (g)(1) through (g)(4) of 63.1335. Requests shall be submitted in the Precompliance Report as specified in paragraph (e)(3)(iv) of 63.1335, if not already included in the operating permit application, and shall contain the information specified in paragraphs (g)(2)(ii) and (g)(3)(ii) of 63.1335, as applicable.

(1) The provisions in 63.8(f)(5)(i) shall govern the review and approval of requests.

(2) An owner or operator of an affected source that does not have an automated monitoring and recording system capable of measuring parameter values at least once every 15 minutes and that does not generate continuous records may request approval to use a nonautomated system with less frequent monitoring, in accordance with paragraphs (g)(2)(i) and (g)(2)(ii) of 63.1335.

III. Monitoring and/or Record Keeping Requirements (continued)

(i) The requested system shall include manual reading and recording of the value of the relevant operating parameter no less frequently than once per hour. Daily average (or batch cycle daily average) values shall be calculated from these hourly values and recorded.

(ii) The request shall contain:

(A) A description of the planned monitoring and record keeping system;

(B) Documentation that the affected source does not have an automated monitoring and recording system;

(C) Justification for requesting an alternative monitoring and record keeping system; and

(D) Demonstration to the Administrator's satisfaction that the proposed monitoring frequency is sufficient to represent control or recovery device operating conditions, considering typical variability of the specific process and control or recovery device operating parameter being monitored.

(3) An owner or operator may request approval to use an automated data compression recording system that does not record monitored operating parameter values at a set frequency, but records all values that meet set criteria for variation from previously recorded values, in accordance with paragraphs (g)(3)(i) and (g)(3)(ii) of 63.1335.

(i) The requested system shall be designed to:

(A) Measure the operating parameter value at least once during every 15 minute period;

(B) Except for the monitoring of batch process vents, calculate hourly average values each hour during periods of operation;

(C) Record the date and time when monitors are turned off or on;

(D) Recognize unchanging data that may indicate the monitor is not functioning properly, alert the operator, and record the incident;

(E) Calculate daily average (or batch cycle daily average) values of the monitored operating parameter based on all measured data; and

(F) If the daily average is not an excursion, as defined in 63.1334(f), the data for that operating day may be converted to hourly average values and the four or more individual records for each hour in the operating day may be discarded.

(ii) The request shall contain:

(A) A description of the monitoring system and data compression recording system, including the criteria used to determine which monitored values are recorded and retained;

(B) The method for calculating daily averages and batch cycle daily averages; and

(C) A demonstration that the system meets all criteria in paragraph (g)(3)(i) of 63.1335.

(4) An owner or operator may request approval to use other alternative monitoring systems according to the procedures specified in 63.8(f)(4).

60. [40 CFR 63.1335(h)]

Reduced record keeping program. For any parameter with respect to any item of equipment, the owner or operator may implement the record keeping requirements specified in paragraph (h)(1) or (h)(2) of 63.1335 as alternatives to the continuous operating parameter monitoring and record keeping provisions that would otherwise apply under this subpart. The owner or operator shall retain for a period of 5 years each record required by paragraph (h)(1) or (h)(2) of 63.1335, except as otherwise provided in paragraph (h)(1)(vi)(D) of 63.1335.

III. Monitoring and/or Record Keeping Requirements (continued)

61. [40 CFR 63.1335(h)(1)]

The owner or operator may retain only the daily average (or batch cycle daily average) value, and is not required to retain more frequent monitored operating parameter values, for a monitored parameter with respect to an item of equipment, if the requirements of paragraphs (h)(1)(i) through (h)(1)(vi) of 63.1335 are met. An owner or operator electing to comply with the requirements of paragraph (h)(1) of 63.1335 shall notify the Administrator in the Notification of Compliance Status as specified in paragraph (e)(5)(xi) of 63.1335 or, if the Notification of Compliance Status has already been submitted, in the Periodic Report immediately preceding implementation of the requirements of paragraph (h)(1) of 63.1335 as specified in paragraph (e)(6)(ix) of 63.1335.

(i) The monitoring system is capable of detecting unrealistic or impossible data during periods of operation other than start-ups, shutdowns, or malfunctions (e.g., a temperature reading of -200 deg. C on a boiler), and will alert the operator by alarm or other means. The owner or operator shall record the occurrence. All instances of the alarm or other alert in an operating day constitute a single occurrence.

(ii) The monitoring system generates, updated at least hourly throughout each operating day, a running average of the monitoring values that have been obtained during that operating day, and the capability to observe this running average is readily available to the Administrator on-site during the operating day. The owner or operator shall record the occurrence of any period meeting the criteria in paragraphs (h)(1)(ii)(A) through (h)(1)(ii)(C) of 63.1335. All instances in an operating day constitute a single occurrence.

(A) The running average is above the maximum or below the minimum established limits;

(B) The running average is based on at least six 1-hour average values; and

(C) The running average reflects a period of operation other than a start-up, shutdown, or malfunction.

(iii) The monitoring system is capable of detecting unchanging data during periods of operation other than start-ups, shutdowns, or malfunctions, except in circumstances where the presence of unchanging data is the expected operating condition based on past experience (e.g., pH in some scrubbers), and will alert the operator by alarm or other means. The owner or operator shall record the occurrence. All instances of the alarm or other alert in an operating day constitute a single occurrence.

(iv) The monitoring system will alert the owner or operator by an alarm or other means, if the running average parameter value calculated under paragraph (h)(1)(ii) of 63.1335 reaches a set point that is appropriately related to the established limit for the parameter that is being monitored.

III. Monitoring and/or Record Keeping Requirements (continued)

(v) The owner or operator shall verify the proper functioning of the monitoring system, including its ability to comply with the requirements of paragraph (h)(1) of 63.1335, at the times specified in paragraphs (h)(1)(v)(A) through (h)(1)(v)(C). The owner or operator shall document that the required verifications occurred.

(A) Upon initial installation.

(B) Annually after initial installation.

(C) After any change to the programming or equipment constituting the monitoring system, which might reasonably be expected to alter the monitoring system's ability to comply with the requirements of this section.

(vi) The owner or operator shall retain the records identified in paragraphs (h)(1)(vi)(A) through (h)(1)(vi)(D) of 63.1335.

(A) Identification of each parameter, for each item of equipment, for which the owner or operator has elected to comply with the requirements of paragraph (h) of 63.1335.

(B) A description of the applicable monitoring system(s), and of how compliance will be achieved with each requirement of paragraphs (h)(1)(i) through (h)(1)(v) of 63.1335. The description shall identify the location and format (e.g., on-line storage, log entries) for each required record. If the description changes, the owner or operator shall retain both the current and the most recent superseded description, as provided in paragraph (a) of 63.1335, except as provided in paragraph (h)(1)(vi)(D) of 63.1335.

(C) A description, and the date, of any change to the monitoring system that would reasonably be expected to impair its ability to comply with the requirements of paragraph (h)(1) of 63.1335.

(D) Owners and operators subject to paragraph (h)(1)(vi)(B) of 63.1335 shall retain the current description of the monitoring system as long as the description is current. The current description shall, at all times, be retained on-site or be accessible from a central location by computer or other means that provides access within 2 hours after a request. The owner or operator shall retain all superseded descriptions for at least 5 years after the date of their creation. Superseded descriptions shall be retained on-site (or accessible from a central location by computer or other means that provides access within 2 hours after a request) for at least 6 months after their creation. Thereafter, superseded descriptions may be stored off-site.

62. [40 CFR 63.1335(h)(2)]

If an owner or operator has elected to implement the requirements of paragraph (h)(1) of 63.1335 for a monitored parameter with respect to an item of equipment and a period of 6 consecutive months has passed without an excursion as defined in paragraph (h)(2)(iv) of 63.1335, the owner or operator is no longer required to record the daily average (or batch cycle daily average) value for any operating day when the daily average (or batch cycle daily average) value is less than the maximum or greater than the minimum established limit. With approval by the Administrator, monitoring data generated prior to the compliance date of this subpart shall be credited toward the period of 6 consecutive months, if the parameter limit and the monitoring accomplished during the period prior to the compliance date was required and/or approved by the Administrator.

(i) If the owner or operator elects not to retain the daily average (or batch cycle daily average) values, the owner or operator shall notify the Administrator in the next Periodic Report as specified in paragraph (e)(6)(x) of 63.1335. The notification shall identify the parameter and unit of equipment.

III. Monitoring and/or Record Keeping Requirements (continued)

(ii) If, on any operating day after the owner or operator has ceased recording daily average (or batch cycle daily average) values as provided in paragraph (h)(2) of 63.1335, there is an excursion as defined in paragraph (h)(2)(iv) of 63.1335, the owner or operator shall immediately resume retaining the daily average (or batch cycle daily average) value for each operating day and shall notify the Administrator in the next Periodic Report. The owner or operator shall continue to retain each daily average (or batch cycle daily average) value until another period of 6 consecutive months has passed without an excursion as defined in paragraph (h)(2)(iv) of 63.1335.

(iii) The owner or operator shall retain the records specified in paragraphs (h)(1)(i) through (h)(1)(iii) of 63.1335, for the duration specified in paragraph (h) of 63.1335. For any calendar week, if compliance with paragraphs (h)(1)(i) through (h)(1)(iv) of 63.1335 does not result in retention of a record of at least one occurrence or measured parameter value, the owner or operator shall record and retain at least one parameter value during a period of operation other than a start-up, shutdown, or malfunction.

(iv) For purposes of paragraph (h) of 63.1335, an excursion means that the daily average (or batch cycle daily average) value of monitoring data for a parameter is greater than the maximum, or less than the minimum established value, except as provided in paragraphs (h)(2)(iv)(A) and (h)(2)(iv)(B) of 63.1335.

(A) The daily average (or batch cycle daily average) value during any start-up, shutdown, or malfunction shall not be considered an excursion for purposes of paragraph (h)(2) of 63.1335, if the owner or operator follows the applicable provisions of the start-up, shutdown, and malfunction plan required by 63.6(e)(3).

(B) An excused excursion, as described in 63.1334(g), shall not be considered an excursion for purposes of paragraph (h)(2) of 63.1335.

- 63.** The permittee shall collect and record the following information each month for this emissions unit:
- the amount of polystyrene produced, in tons;
 - the total hours of polystyrene production; and
 - the average hourly polystyrene production rate for the month, in tons/hr.
- 64.** The permittee shall collect and record the annual polystyrene production rate, in tons per year, each year for this emissions unit.
- 65.** The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- the color of the emissions;
 - whether the emissions are representative of normal operations;
 - if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.
- 66.** Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 06-4864, issued on February 12, 1997: sections A.III.1 through A.III.65. The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

IV. Reporting Requirements

- The permittee shall submit deviation reports that identify the days during which photochemically reactive materials were employed in this emissions unit. Each report shall identify the cause for the use of the photochemically reactive material(s), and the estimated total quantity of material(s) emitted during each such day, in pounds. Each report shall be submitted to the Director (the Ohio EPA, Southeast District Office) within 30 days of the deviation.

IV. Reporting Requirements (continued)

2. [OAC rule 3745-21-09(DD)(2)(m)]
Semiannual LDAR reports shall be submitted to the Ohio EPA, Southeast District Office by the first day of February and August and shall include the following information for the preceding semiannual periods:
- (i) The process unit identification;
 - (ii) The number of pumps in light liquid service excluding those pumps designated for no detectable emissions under the provision of paragraph (DD)(2)(d)(i) of OAC rule 3745-21-09 and those pumps complying with paragraph (DD)(2)(d)(iii) of OAC rule 3745-21-09;
 - (iii) The number of valves in gas/vapor service or in light liquid service excluding those valves designated for no detectable emission under the provision of paragraph (DD)(2)(d)(iv) of OAC rule 3745-21-09 and those valves subject to the alternative standard for monitoring under the provision of paragraph (DD)(2)(d)(v) of OAC rule 3745-21-09;
 - (iv) The number of compressors excluding those compressors designated for no detectable emissions under the provision of paragraph (DD)(3)(c) of OAC rule 3745-21-09 and those compressors complying with paragraph (DD)(3)(d) or (DD)(3)(e) of OAC rule 3745-21-09;
 - (v) For each month during the semiannual period:
 - (a) The number of pumps in light liquid service for which leaks were detected as described in paragraph (DD)(2)(g) of OAC rule 3745-21-09;
 - (b) The number of pumps in light liquid service for which leaks were not repaired within fifteen calendar days after the date of leak detection;
 - (c) The number of valves in gas/vapor service or in light liquid service for which leaks were detected as described in paragraph (DD)(2)(g) of OAC rule 3745-21-09;
 - (d) The number of valves in gas/vapor service or in light liquid service for which leaks were not repaired within fifteen calendar days after the date of leak detection;
 - (e) The number of compressors for which leaks were detected as described in paragraph (DD) of OAC rule 3745-21-09;
 - (f) The number of compressors for which leaks were not repaired within fifteen calendar days after the date of leak detection; and
 - (g) The facts that explain each delay of repair allowed pursuant to paragraph (DD)(11) of OAC rule 3745-21-09; and
 - (vi) The dates of process unit shutdowns that occurred within the semiannual period.

IV. Reporting Requirements (continued)

3. [OAC rule 3745-21-09(DD)(15)]
LDAR Program Reporting

(a) Each owner or operator of a process unit as described in paragraph (DD)(1) of OAC rule 3745-21-09 shall comply with the reporting requirements specified in paragraphs (DD)(15)(b) to (DD)(15)(d) of OAC rule 3745-21-09.

(b) For compliance tests required under paragraphs (DD)(7)(c) and (DD)(9)(c) of OAC rule 3745-21-09, the requirements of paragraphs (A)(3) and (A)(4) of rule 3745-21-10 of the Administrative Code (pertaining to notification of intent to test) shall be met. The results of such compliance tests shall be reported to the Ohio EPA, Southeast District Office within 30 days after the test date.

(c) The results of compliance tests required under paragraph (DD)(4)(c) of OAC rule 3745-21-09 shall be reported semiannually to the Ohio EPA, Southeast District Office. The semiannual reports shall be submitted by the first day of February and August and shall include information for the preceding semiannual period.

(d) Any semiannual reports required under paragraph (DD)(2)(m) of OAC rule 3745-21-09 may be sent to the Ohio EPA, Southeast District Office.

4. [40 CFR 63.1320(a)]
PET and Polystyrene Affected Sources - Reporting Provisions

Owners and operators using a control or recovery device to comply with 63.1316 shall comply with the applicable reporting provisions specified in 63.1315(a), except that, for the purposes of this paragraph (a), references to group determinations (i.e., total resource effectiveness) do not apply, and owners or operators are not required to comply with 63.113.

5. [40 CFR 63.1335(b)(1)(ii)]
General Record keeping and Reporting Provisions

Reports of start-up, shutdown, and malfunction. For the purposes of this subpart, the semiannual start-up, shutdown, and malfunction reports shall be submitted on the same schedule as the Periodic Reports required under paragraph (e)(6) of 63.1335 instead of being submitted on the schedule specified in 63.10(d)(5)(i). The reports shall include the information specified in 63.10(d)(5)(i).

6. [40 CFR 63.1335(e)]
Reporting and Notification

In addition to the reports and notifications required by subpart A of this part as specified in Table 1 of this subpart, the owner or operator of an affected source shall prepare and submit the reports listed in paragraphs (e)(3) through (e)(8) of 63.1335, as applicable. All reports required by this subpart, and the schedule for their submittal, are listed in Table 9 of this subpart.

7. [40 CFR 63.1335(e)(1)]
Owners and operators shall not be in violation of the reporting requirements of this subpart for failing to submit information required to be included in a specified report if the owner or operator meets the requirements in paragraphs (e)(1)(i) through (e)(1)(iii) of 63.1335. Examples of circumstances where this paragraph may apply include information related to newly-added equipment or emission points, changes in the process, changes in equipment required or utilized for compliance with the requirements of this subpart, or changes in methods or equipment for monitoring, recordkeeping, or reporting.

(i) The information was not known in time for inclusion in the report specified by this subpart;

(ii) The owner or operator has been diligent in obtaining the information; and

(iii) The owner or operator submits a report according to the provisions of paragraphs (e)(1)(iii)(A) through (e)(1)(iii)(C) of 63.1335.

(A) If this subpart expressly provides for supplements to the report in which the information is required, the owner or operator shall submit the information as a supplement to that report. The information shall be submitted no later than 60 days after it is obtained, unless otherwise specified in this subpart.

IV. Reporting Requirements (continued)

(B) If this subpart does not expressly provide for supplements, but the owner or operator must submit a request for revision of an operating permit pursuant to part 70 or part 71, due to circumstances to which the information pertains, the owner or operator shall submit the information with the request for revision to the operating permit.

(C) In any case not addressed by paragraph (e)(1)(iii)(A) or (e)(1)(iii)(B) of this paragraph, the owner or operator shall submit the information with the first Periodic Report, as required by this subpart, which has a submission deadline at least 60 days after the information is obtained.

8. [40 CFR 63.1335(e)(2)]
All reports required under this subpart shall be sent to the Administrator at the appropriate address listed in 63.13. If acceptable to both the Administrator and the owner or operator of an affected source, reports may be submitted on electronic media.
9. [40 CFR 63.1335(e)(3)]
Precompliance Report. Owners or operators of affected sources requesting an extension for compliance; requesting approval to use alternative monitoring parameters, alternative continuous monitoring and record keeping, or alternative controls; requesting approval to use engineering assessment to estimate emissions from a batch emissions episode, as described in 63.1323(b)(6)(i)(C); wishing to establish parameter monitoring levels according to the procedures contained in 63.1334(c) or (d); or requesting approval to incorporate a provision for ceasing to collect monitoring data, during a start-up, shutdown, or malfunction, into the start-up, shutdown, and malfunction plan, when that monitoring equipment would be damaged if it did not cease to collect monitoring data, as permitted under 63.1310(j)(3), shall submit a Precompliance Report according to the schedule described in paragraph (e)(3)(i) of 63.1335. The Precompliance Report shall contain the information specified in paragraphs (e)(3)(ii) through (e)(3)(viii) of 63.1335, as appropriate.
- (i) Submittal dates. The Precompliance Report shall be submitted to the Administrator no later than December 19, 2000. If a Precompliance Report was submitted prior to June 19, 2000 and no changes need to be made to that Precompliance Report, the owner or operator shall re-submit the earlier report or submit notification that the previously submitted report is still valid. Unless the Administrator objects to a request submitted in the Precompliance Report within 45 days after its receipt, the request shall be deemed approved. For new affected sources, the Precompliance Report shall be submitted to the Administrator with the application for approval of construction or reconstruction required in paragraph (b)(2) of 63.1335. Supplements to the Precompliance Report may be submitted as specified in paragraph (e)(3)(ix) of 63.1335.
- (ii) A request for an extension for compliance, as specified in 63.1311(e), may be submitted in the Precompliance Report. The request for a compliance extension shall include the data outlined in 63.6(i)(6)(i)(A), (B), and (D), as required in 63.1311(e)(1).
- (iii) The alternative monitoring parameter information required in paragraph (f) of 63.1335 shall be submitted in the Precompliance Report if, for any emission point, the owner or operator of an affected source seeks to comply through the use of a control technique other than those for which monitoring parameters are specified in this subpart or in subpart G of this part or seeks to comply by monitoring a different parameter than those specified in this subpart or in subpart G of this part.
- (iv) If the affected source seeks to comply using alternative continuous monitoring and recordkeeping as specified in paragraph (g) of 63.1335, the owner or operator shall submit a request for approval in the Precompliance Report.
- (v) The owner or operator shall report the intent to use alternative controls to comply with the provisions of this subpart in the Precompliance Report. The Administrator may deem alternative controls to be equivalent to the controls required by the standard, under the procedures outlined in 63.6(g).
- (vi) If a request for approval to use engineering assessment to estimate emissions from a batch emissions episode, as described in 63.1323(b)(6)(i)(C) is being made, the information required by 63.1323(b)(6)(iii)(B) shall be submitted in the Precompliance Report.

IV. Reporting Requirements (continued)

(vii) If an owner or operator establishes parameter monitoring levels according to the procedures contained in 63.1334(c) or (d), the following information shall be submitted in the Precompliance Report:

(A) Identification of which procedures (i.e., 63.1334(c) or (d)) are to be used; and

(B) A description of how the parameter monitoring level is to be established. If the procedures in 63.1334(c) are to be used, a description of how performance test data will be used shall be included.

(viii) If the owner or operator is requesting approval to incorporate a provision for ceasing to collect monitoring data, during a start-up, shutdown, or malfunction, into the start-up, shutdown, and malfunction plan, when that monitoring equipment would be damaged if it did not cease to collect monitoring data, the information specified in paragraphs (e)(3)(viii)(A) and (B) shall be supplied in the Precompliance Report or in a supplement to the Precompliance Report. The Administrator shall evaluate the supporting documentation and shall approve the request only if, in the Administrator's judgment, the specific monitoring equipment would be damaged by the contemporaneous start-up, shutdown, or malfunction.

(A) Documentation supporting a claim that the monitoring equipment would be damaged by the contemporaneous start-up, shutdown, or malfunction; and

(B) A request to incorporate such a provision for ceasing to collect monitoring data during a start-up, shutdown, or malfunction, into the start-up, shutdown, and malfunction plan.

(ix) Supplements to the Precompliance Report may be submitted as specified in paragraphs (e)(3)(ix)(A) or (e)(3)(ix)(B) of 63.1335. Unless the Administrator objects to a request submitted in a supplement to the Precompliance Report within 45 days after its receipt, the request shall be deemed approved.

(A) Supplements to the Precompliance Report may be submitted to clarify or modify information previously submitted.

(B) Supplements to the Precompliance Report may be submitted to request approval to use alternative monitoring parameters, as specified in paragraph (e)(3)(iii) of 63.1335; to use alternative continuous monitoring and recordkeeping, as specified in paragraph (e)(3)(iv) of 63.1335; to use alternative controls, as specified in paragraph (e)(3)(v) of 63.1335; to use engineering assessment to estimate emissions from a batch emissions episode, as specified in paragraph (e)(3)(vi) of 63.1335; to establish parameter monitoring levels according to the procedures contained in 63.1334(c) or (d), as specified in paragraph (e)(3)(vii) of 63.1335; or to include a provision for ceasing to collect monitoring data during a start-up, shutdown, or malfunction, in the start-up, shutdown, and malfunction plan, when that monitoring equipment would be damaged if it did not cease to collect monitoring data, as specified in paragraph (e)(3)(viii) of 63.1335.

10. [40 CFR 63.1335(e)(4)]

Emissions Averaging Plan. For all existing affected sources using emissions averaging, an Emissions Averaging Plan shall be submitted for approval according to the schedule and procedures described in paragraph (e)(4)(i) of 63.1335. The Emissions Averaging Plan shall contain the information specified in paragraph (e)(4)(ii) of 63.1335, unless the information required in paragraph (e)(4)(ii) of 63.1335 is submitted with an operating permit application. An owner or operator of an affected source who submits an operating permit application instead of an Emissions Averaging Plan shall submit the information specified in paragraph (e)(8) of 63.1335. In addition, a supplement to the Emissions Averaging Plan, as required under paragraph (e)(4)(iii) of 63.1335, is to be submitted whenever additional alternative controls or operating scenarios may be used to comply with this subpart. Updates to the Emissions Averaging Plan shall be submitted in accordance with paragraph (e)(4)(iv) of 63.1335.

(i) Submittal and approval. The Emissions Averaging Plan shall be submitted no later than September 19, 2000, and it is subject to Administrator approval. If an Emissions Averaging Plan was submitted prior to June 19, 2000 and no changes need to be made to that Emissions Averaging Plan, the owner or operator shall re-submit the earlier plan or submit notification that the previously submitted plan is still valid. The Administrator shall determine within 120 days whether the Emissions Averaging Plan submitted presents sufficient information. The Administrator shall either approve the Emissions Averaging Plan, request changes, or request that the owner or operator submit additional information. Once the Administrator receives sufficient information, the Administrator shall approve, disapprove, or request changes to the plan within 120 days.

IV. Reporting Requirements (continued)

(ii) Information required. The Emissions Averaging Plan shall contain the information listed in paragraphs (e)(4)(ii)(A) through (e)(4)(ii)(N) of 63.1335 for all emission points included in an emissions average.

(A) The required information shall include the identification of all emission points in the planned emissions average and, where applicable, notation of whether each storage vessel, continuous process vent, batch process vent, aggregate batch vent stream, and process wastewater stream is a Group 1 or Group 2 emission point, as defined in 63.1312 or as designated under 63.1332 (c)(3) through (c)(5).

(B) The required information shall include the projected emission debits and credits for each emission point and the sum for the emission points involved in the average calculated according to 63.1332. The projected credits shall be greater than or equal to the projected debits, as required under 63.1332(e)(3).

(C) The required information shall include the specific control technology or pollution prevention measure that will be used for each emission point included in the average and date of application or expected date of application.

(D) The required information shall include the specific identification of each emission point affected by a pollution prevention measure. To be considered a pollution prevention measure, the criteria in 63.1332(j)(1) shall be met. If the same pollution prevention measure reduces or eliminates emissions from multiple emission points in the average, the owner or operator shall identify each of these emission points.

(E) The required information shall include a statement that the compliance demonstration, monitoring, inspection, recordkeeping, and reporting provisions in 63.1332 (m), (n), and (o) that are applicable to each emission point in the emissions average will be implemented beginning on or before the date of compliance.

(F) The required information shall include documentation of the data listed in paragraphs (e)(4)(ii)(F)(1) through (e)(4)(ii)(F)(5) of 63.1335 for each storage vessel and continuous process vent subject to 63.1315 included in the average.

(1) The required documentation shall include the values of the parameters used to determine whether the emission point is Group 1 or Group 2. Where TRE index value is used for continuous process vent group determination, the estimated or measured values of the parameters used in the TRE equation in 63.115(d) and the resulting TRE index value shall be submitted.

(2) The required documentation shall include the estimated values of all parameters needed for input to the emission debit and credit calculations in 63.1332(g) and (h). These parameter values shall be specified in the affected source's Emissions Averaging Plan (or operating permit) as enforceable operating conditions. Changes to these parameters shall be reported as required by paragraph (e)(4)(iv) of 63.1335.

(3) The required documentation shall include the estimated percent reduction if a control technology achieving a lower percent reduction than the efficiency of the applicable reference control technology or standard is or will be applied to the emission point.

(4) The required documentation shall include the anticipated nominal efficiency if a control technology achieving a greater percent emission reduction than the efficiency of the reference control technology is or will be applied to the emission point. The procedures in 63.1332(i) shall be followed to apply for a nominal efficiency, and the report specified in paragraph (e)(7)(ii) of 63.1335 shall be submitted with the Emissions Averaging Plan as specified in paragraph (e)(7)(ii)(A) of 63.1335.

IV. Reporting Requirements (continued)

(5) The required documentation shall include the monitoring plan specified in 63.122(b), to include the information specified in 63.120(d)(2)(i) and in either 63.120(d)(2)(ii) or (d)(2)(iii) for each storage vessel controlled with a closed-vent system using a control device other than a flare.

(G) The information specified in paragraph (f) of this section shall be included in the Emissions Averaging Plan for:

(1) Each continuous process vent subject to 63.1315 controlled by a pollution prevention measure or control technique for which monitoring parameters or inspection procedures are not specified in 63.114; and

(2) Each storage vessel controlled by pollution prevention or a control technique other than an internal or external floating roof or a closed vent system with a control device.

(H) The required information shall include documentation of the data listed in paragraphs (e)(4)(ii)(H)(1) through (e)(4)(ii)(H)(5) of 63.1335 for each collection of continuous process vents located in a process section within the affected source subject to 63.1316 (b)(1)(i), (b)(1)(ii), (b)(2)(i), (b)(2)(ii), or (c)(1) included in the average.

(1) For continuous process vents subject to 63.1316(b)(1)(i), the required documentation shall include the values of the parameters used to determine whether the emission point is Group 1 or Group 2. Continuous process vents subject to 63.1316 (b)(1)(ii), (b)(2)(i), (b)(2)(ii), or (c)(1) are considered Group 1 emission points for purposes of emissions averaging, as specified in 63.1332(c)(5).

(2) The required documentation shall include the estimated values of all parameters needed for input to the emission debit and credit calculations in 63.1332(g) and (h). These parameter values shall be specified in the affected source's Emissions Averaging Plan (or operating permit) as enforceable operating conditions. Changes to these parameters shall be reported as required by paragraph (e)(4)(iv) of 63.1335.

(3) For process sections generating debits or credits by comparing actual emissions expressed as kg HAP emissions per Mg of product to the applicable standard, the required documentation shall include the actual emission level expressed as kg HAP emissions per Mg of product.

(4) For process sections using combustion control devices, the required documentation shall include the estimated percent reduction if a control technology achieving a lower percent reduction than the efficiency of the applicable reference control technology or standard is or will be applied to the emission point.

(5) For process sections using combustion control devices, the required documentation shall include the anticipated nominal efficiency if a control technology achieving a greater percent emission reduction than the efficiency of the reference control technology is or will be applied to the emission point. The procedures in 63.1332(i) shall be followed to apply for a nominal efficiency.

(I) For each pollution prevention measure or control device used to reduce air emissions of organic HAP from each collection of continuous process vents located in a process section within the affected source subject to 63.1316 (b)(1)(i), (b)(1)(ii), (b)(2)(i), (b)(2)(ii), or (c)(1) and for which no monitoring parameters or inspection procedures are specified in 63.114, the information specified in paragraph (f) of 63.1335, Alternative Monitoring Parameters, shall be included in the Emissions Averaging Plan.

(J) The required information shall include documentation of the data listed in paragraphs (e)(4)(ii)(J)(1) through (e)(4)(ii)(J)(3) of 63.1335 for each batch process vent and aggregate batch vent stream included in the average.

(1) The required documentation shall include the values of the parameters used to determine whether the emission point is Group 1 or Group 2.

IV. Reporting Requirements (continued)

(2) The required documentation shall include the estimated values of all parameters needed for input to the emission debit and credit calculations in 63.1332(g) and (h). These parameter values shall be specified in the affected source's Emissions Averaging Plan (or operating permit) as enforceable operating conditions. Changes to these parameters shall be reported as required by paragraph (e)(4)(iv) of 63.1335.

(3) For batch process vents, the required documentation shall include the estimated percent reduction for the batch cycle. For aggregate batch vent streams, the required documentation shall include the estimated percent reduction achieved on a continuous basis.

(K) For each pollution prevention measure or control device used to reduce air emissions of organic HAP from batch process vents or aggregate batch vent streams and for which no monitoring parameters or inspection procedures are specified in 63.1324, the information specified in paragraph (f) of 63.1335, Alternative Monitoring Parameters, shall be included in the Emissions Averaging Plan.

(L) The required information shall include documentation of the data listed in paragraphs (e)(4)(ii)(L)(1) through (e)(4)(ii)(L)(4) of 63.1335 for each process wastewater stream included in the average.

(1) The required documentation shall include the data used to determine whether the wastewater stream is a Group 1 or Group 2 wastewater stream.

(2) The required documentation shall include the estimated values of all parameters needed for input to the wastewater emission credit and debit calculations in 63.1332(g) and (h). These parameter values shall be specified in the affected source's Emissions Averaging Plan (or operating permit) as enforceable operating conditions. Changes to these parameters shall be reported as required by paragraph (e)(4)(iv) of 63.1335.

(3) The required documentation shall include the estimated percent reduction if:

(i) A control technology that achieves an emission reduction less than or equal to the emission reduction that would otherwise have been achieved by a steam stripper designed to the specifications found in 63.138(g) is or will be applied to the wastewater stream;

(ii) A control technology achieving less than or equal to 95 percent emission reduction is or will be applied to the vapor stream(s) vented and collected from the treatment processes; or

(iii) A pollution prevention measure is or will be applied.

(4) The required documentation shall include the anticipated nominal efficiency if the owner or operator plans to apply for a nominal efficiency under 63.1332(i). A nominal efficiency shall be applied for if:

(i) A control technology that achieves an emission reduction greater than the emission reduction that would have been achieved by a steam stripper designed to the specifications found in 63.138(g), is or will be applied to the wastewater stream; or

(ii) A control technology achieving greater than 95 percent emission reduction is or will be applied to the vapor stream(s) vented and collected from the treatment processes.

(M) For each pollution prevention measure, treatment process, or control device used to reduce air emissions of organic HAP from wastewater and for which no monitoring parameters or inspection procedures are specified in 63.143, the information specified in paragraph (f) of 63.1335, Alternative Monitoring Parameters, shall be included in the Emissions Averaging Plan.

IV. Reporting Requirements (continued)

(N) The required information shall include documentation of the data required by 63.1332(k). The documentation shall demonstrate that the emissions from the emission points proposed to be included in the average will not result in greater hazard or, at the option of the Administrator, greater risk to human health or the environment than if the emission points were not included in an emissions average.

(iii) Supplement to Emissions Averaging Plan. The owner or operator required to prepare an Emissions Averaging Plan under paragraph (e)(4) of 63.1335 shall also prepare a supplement to the Emissions Averaging Plan for any additional alternative controls or operating scenarios that may be used to achieve compliance.

(iv) Updates to Emissions Averaging Plan. The owner or operator of an affected source required to submit an Emissions Averaging Plan under paragraph (e)(4) of 63.1335 shall also submit written updates of the Emissions Averaging Plan to the Administrator for approval under the circumstances described in paragraphs (e)(4)(iv)(A) through (e)(4)(iv)(C) of 63.1335 unless the relevant information has been included and submitted in an operating permit application or amendment.

(A) The owner or operator who plans to make a change listed in either paragraph (e)(4)(iv)(A)(1) or (e)(4)(iv)(A)(2) of 63.1335 shall submit an Emissions Averaging Plan update at least 120 days prior to making the change.

(1) An Emissions Averaging Plan update shall be submitted whenever an owner or operator elects to achieve compliance with the emissions averaging provisions in 63.1332 by using a control technique other than that specified in the Emissions Averaging Plan or plans to monitor a different parameter or operate a control device in a manner other than that specified in the Emissions Averaging Plan.

(2) An Emissions Averaging Plan update shall be submitted whenever an emission point or a TPPU is added to an existing affected source and is planned to be included in an emissions average, or whenever an emission point not included in the emissions average described in the Emissions Averaging Plan is to be added to an emissions average. The information in paragraph (e)(4) of 63.1335 shall be updated to include the additional emission point.

(B) The owner or operator who has made a change as defined in paragraph (e)(4)(iv)(B)(1) or (e)(4)(iv)(B)(2) of 63.1335 shall submit an Emissions Averaging Plan update within 90 days after the information regarding the change is known to the affected source. The update may be submitted in the next quarterly periodic report if the change is made after the date the Notification of Compliance Status is due.

(1) An Emissions Averaging Plan update shall be submitted whenever a process change is made such that the group status of any emission point in an emissions average changes.

(2) An Emissions Averaging Plan update shall be submitted whenever a value of a parameter in the emission credit or debit equations in 63.1332 (g) or (h) changes such that it is below the minimum or above the maximum established level specified in the Emissions Averaging Plan and causes a decrease in the projected credits or an increase in the projected debits.

(C) The Administrator shall approve or request changes to the Emissions Averaging Plan update within 120 days of receipt of sufficient information regarding the change for emission points included in emissions averages.

IV. Reporting Requirements (continued)

11. [40 CFR 63.1335(e)(5)]
Notification of Compliance Status. For existing and new affected sources, a Notification of Compliance Status shall be submitted. For equipment leaks subject to 63.1331, the owner or operator shall submit the information required in 63.182(c) in the Notification of Compliance Status within 150 days after the first applicable compliance date for equipment leaks in the affected source, and an update shall be provided in the first Periodic Report that is due at least 150 days after each subsequent applicable compliance date for equipment leaks in the affected source. For all other emission points, including heat exchange systems, the Notification of Compliance Status shall contain the information listed in paragraphs (e)(5)(i) through (e)(5)(xi) of 63.1335, as applicable, and shall be submitted no later than 150 days after the compliance dates specified in this subpart.
- (i) The results of any emission point group determinations, process section applicability determinations, performance tests, inspections, any other information used to demonstrate compliance, values of monitored parameters established during performance tests, and any other information required to be included in the Notification of Compliance Status under 63.1311(m), 63.122, and 63.1314 for storage vessels, 63.117 for continuous process vents, 63.146 for process wastewater, 63.1316 through 63.1320 for continuous process vents subject to 63.1316, 63.1327 for batch process vents, 63.1329 for process contact cooling towers, and 63.1332 for emission points included in an emissions average. In addition, the owner or operator of an affected source shall comply with paragraphs (e)(5)(i)(A) and (e)(5)(i)(B) of 63.1335.
- (A) For performance tests, group determinations, and process section applicability determinations that are based on measurements, the Notification of Compliance Status shall include one complete test report, as described in paragraph (e)(5)(i)(B) of 63.1335, for each test method used for a particular kind of emission point. For additional tests performed for the same kind of emission point using the same method, the results and any other information, from the test report, that is requested on a case-by-case basis by the Administrator shall be submitted, but a complete test report is not required.
- (B) A complete test report shall include a brief process description, sampling site description, description of sampling and analysis procedures and any modifications to standard procedures, quality assurance procedures, record of operating conditions during the test, record of preparation of standards, record of calibrations, raw data sheets for field sampling, raw data sheets for field and laboratory analyses, documentation of calculations, and any other information required by the test method.
- (ii) For each monitored parameter for which a maximum or minimum level is required to be established under 63.114(e) for continuous process vents, 63.1324 for batch process vents and aggregate batch vent streams, 63.143(f) for process wastewater, 63.1332(m) for emission points in emissions averages, paragraph (e)(8) of 63.1335, or paragraph (f) of 63.1335, the Notification of Compliance Status shall contain the information specified in paragraphs (e)(5)(ii)(A) through (e)(5)(ii)(D) of 63.1335, unless this information has been established and provided in the operating permit application. Further, as described in 63.1314(a)(9), for those storage vessels for which the monitoring plan required by 63.1314(a)(9) specifies compliance with the provisions of 63.1334, the owner or operator shall provide the information specified in paragraphs (e)(5)(ii)(A) through (e)(5)(ii)(D) of 63.1335 for each monitored parameter, unless this information has been established and provided in the operating permit application. For those storage vessels for which the monitoring plan required by 63.1314(a)(9) does not require compliance with the provisions of 63.1334, the owner or operator shall provide the information specified in 63.120(d)(3) as part of the Notification of Compliance Status, unless this information has been established and provided in the operating permit application.
- (A) The required information shall include the specific maximum or minimum level of the monitored parameter(s) for each emission point.
- (B) The required information shall include the rationale for the specific maximum or minimum level for each parameter for each emission point, including any data and calculations used to develop the level and a description of why the level indicates proper operation of the control device.

IV. Reporting Requirements (continued)

(C) The required information shall include a definition of the affected source's operating day, as specified in paragraph (d)(3)(ii) of 63.1335, for purposes of determining daily average values or batch cycle daily average values of monitored parameters.

(D) For batch process vents, the required information shall include a definition of each batch cycle that requires the control of one or more batch emission episodes during the cycle, as specified in 63.1325(c)(2) and 63.1334(b)(3)(iii).

(iii) For emission points included in an emissions average, the Notification of Compliance Status shall contain the values of all parameters needed for input to the emission credit and debit equations in 63.1332 (g) and (h), calculated or measured according to the procedures in 63.1332 (g) and (h), and the resulting calculation of credits and debits for the first quarter of the year. The first quarter begins on the compliance date specified.

(iv) The determination of applicability for flexible operation units as specified in 63.1310(f).

(v) The parameter monitoring levels for flexible operation units, and the basis on which these levels were selected, or a demonstration that these levels are appropriate at all times, as specified in 63.1310(f)(7).

(vi) The results for each predominant use determination made under 63.1310(g), for storage vessels assigned to an affected source subject to this subpart.

(vii) The results for each predominant use determination made under 63.1310(h), for recovery operations equipment assigned to an affected source subject to this subpart.

(viii) For owners or operators of Group 2 batch process vents establishing a batch mass input limitation as specified in 63.1325(g), the affected source's operating year for purposes of determining compliance with the batch mass input limitation.

(ix) If any emission point is subject to this subpart and to other standards as specified in 63.1311, and if the provisions of 63.1311 allow the owner or operator to choose which testing, monitoring, reporting, and recordkeeping provisions will be followed, then the Notification of Compliance Status shall indicate which rule's requirements will be followed for testing, monitoring, reporting, and record keeping.

(x) An owner or operator who transfers a Group 1 wastewater stream or residual removed from a Group 1 wastewater stream for treatment pursuant to 63.132(g) shall include in the Notification of Compliance Status the name and location of the transferee and a description of the Group 1 wastewater stream or residual sent to the treatment facility.

(xi) An owner or operator complying with paragraph (h)(1) of 63.1335 shall notify the Administrator of the election to comply with paragraph (h)(1) of 63.1335 as part of the Notification of Compliance Status or as part of the appropriate Periodic Report as specified in paragraph (e)(6)(ix) of 63.1335.

12. [40 CFR 63.1335(e)(6)]

Periodic Reports. For existing and new affected sources, the owner or operator shall submit Periodic Reports as specified in paragraphs (e)(6)(i) through (e)(6)(xi) of 63.1335. In addition, for equipment leaks subject to 63.1331, the owner or operator shall submit the information specified in 63.182(d) under the conditions listed in 63.182(d), and for heat exchange systems subject to 63.1328, the owner or operator shall submit the information specified in 63.104(f)(2) as part of the Periodic Report required by this paragraph (e)(6). Section 63.1334 shall govern the use of monitoring data to determine compliance for Group 1 emissions points and for Group 1 and Group 2 emission points included in emissions averages with the following exception: As discussed in 63.1314(a)(9), for storage vessels to which the provisions of 63.1334 do not apply, as specified in the monitoring plan required by 63.120(d)(2), the owner or operator is required to comply with the requirements set out in the monitoring plan, and monitoring records may be used to determine compliance.

(i) Except as specified in paragraphs (e)(6)(xi) and (e)(6)(xii) of 63.1335, a report containing the information in paragraph (e)(6)(ii) of 63.1335 or containing the information in paragraphs (e)(6)(iii) through (e)(6)(x) of 63.1335, as appropriate, shall be submitted semiannually no later than 60 days after the end of each 6-month period. The first report shall be submitted no later than 240 days after the date the Notification of Compliance Status is due and shall cover the 6-month period beginning on the date the Notification of Compliance Status is due.

IV. Reporting Requirements (continued)

(ii) If none of the compliance exceptions specified in paragraphs (e)(6)(iii) through (e)(6)(ix) of 63.1335 occurred during the 6-month period, the Periodic Report required by paragraph (e)(6)(i) of 63.1335 shall be a statement that there were no compliance exceptions as described in this paragraph for the 6-month period covered by that report and no activities specified in paragraphs (e)(6)(iii) through (e)(6)(ix) of 63.1335 occurred during the 6-month period covered by that report.

(iii) For an owner or operator of an affected source complying with the provisions of 63.1314 through 63.1330 for any emission point or process section, Periodic Reports shall include:

(A) All information specified in 63.122 for storage vessels; 63.117 and 63.118 and 63.1320 for continuous process vents, as applicable; 63.1327 for batch process vents and aggregate batch vent streams; 63.104 for heat exchange systems; and 63.146 for process wastewater;

(B) The daily average values or batch cycle daily average values of monitored parameters for both excused excursions, as defined in 63.1334(g), and unexcused excursions, as defined in 63.1334(f). For excursions caused by lack of monitoring data, the start-time and duration of periods when monitoring data were not collected shall be specified.

(C) Paragraph (e)(6)(iii)(C) is reserved.

(D) The information in paragraphs (e)(6)(iii)(D)(1) through (e)(6)(iii)(D)(4) of 63.1335, as applicable:

(1) Any supplements to the Emissions Averaging Plan, as required in paragraph (e)(4)(iii) of 63.1335;

(2) Notification if a process change is made such that the group status of any emission point changes from Group 2 to Group 1. The owner or operator is not required to submit a notification of a process change if that process change caused the group status of an emission point to change from Group 1 to Group 2. However, until the owner or operator notifies the Administrator that the group status of an emission point has changed from Group 1 to Group 2, the owner or operator is required to continue to comply with the Group 1 requirements for that emission point. This notification may be submitted at any time.

(3) Notification if one or more emission point(s) (other than equipment leaks) or one or more TPPU is added to an affected source. The owner or operator shall submit the information contained in paragraphs (e)(6)(iii)(D)(3)(i) through (e)(6)(iii)(D)(3)(ii) of 63.1335:

(i) A description of the addition to the affected source; and

(ii) Notification of the group status of the additional emission point or all emission points in the TPPU.

(4) For process wastewater streams sent for treatment pursuant to 63.132(g), reports of changes in the identity of the treatment facility or transferee.

(E) The information in paragraph (b)(1)(ii) of 63.1335 for reports of start-up, shutdown, and malfunction.

(iv) For each batch process vent with a batch mass input limitation, every second Periodic Report shall include the mass of HAP or material input to the batch unit operation during the 12-month period covered by the preceding and current Periodic Reports, and a statement of whether the batch process vent was in or out of compliance with the batch mass input limitation.

IV. Reporting Requirements (continued)

- (v) If any performance tests are reported in a Periodic Report, the following information shall be included:
- (A) One complete test report shall be submitted for each test method used for a particular kind of emission point tested. A complete test report shall contain the information specified in paragraph (e)(5)(i)(B) of 63.1335.
- (B) For additional tests performed for the same kind of emission point using the same method, results and any other information, pertaining to the performance test, that is requested on a case-by-case basis by the Administrator shall be submitted, but a complete test report is not required.
- (vi) Notification of a change in the primary product of a TPPU, in accordance with the provisions in 63.1310(f). This includes a change in primary product from one thermoplastic product to either another thermoplastic product or to a non-thermoplastic product.
- (vii) The results for each change made to a predominant use determination made under 63.1310(g) for a storage vessel that is assigned to an affected source subject to this subpart after the change.
- (viii) The Periodic Report shall include the results for each change made to a predominant use determination made under 63.1310(h) for recovery operations equipment assigned to an affected source subject to this subpart after the change.
- (ix) An owner or operator complying with paragraph (h)(1) of 63.1335 shall notify the Administrator of the election to comply with paragraph (h)(1) of 63.1335 as part of the Periodic Report or as part of the Notification of Compliance Status as specified in paragraph (e)(5)(xi) of 63.1335.
- (x) An owner or operator electing not to retain daily average or batch cycle daily average values under paragraph (h)(2) of 63.1335 shall notify the Administrator as specified in paragraph (h)(2)(i) of 63.1335.
- (xi) The owner or operator of an affected source shall submit quarterly reports for all emission points included in an emissions average as specified in paragraphs (e)(6)(xi)(A) through (e)(6)(xi)(C) of 63.1335.
- (A) The quarterly reports shall be submitted no later than 60 days after the end of each quarter. The first report shall be submitted with the Notification of Compliance Status no later than 150 days after the compliance date.
- (B) The quarterly reports shall include the information specified in paragraphs (e)(6)(xi)(B)(1) through (e)(6)(xi)(B)(7) of 63.1335 for all emission points included in an emissions average.
- (1) The credits and debits calculated each month during the quarter;
- (2) A demonstration that debits calculated for the quarter are not more than 1.30 times the credits calculated for the quarter, as required under 63.1332(e)(4);
- (3) The values of any inputs to the debit and credit equations in 63.1332(g) and (h) that change from month to month during the quarter or that have changed since the previous quarter;
- (4) Results of any performance tests conducted during the reporting period including one complete report for each test method used for a particular kind of emission point as described in paragraph (e)(6)(v) of 63.1335;
- (5) Reports of daily average (or batch cycle daily average) values of monitored parameters for excursions as defined in 63.1334(f);
- (6) For excursions caused by lack of monitoring data, the duration of periods when monitoring data were not collected shall be specified; and
- (7) Any other information the affected source is required to report under the operating permit or Emissions Averaging Plan for the affected source.

IV. Reporting Requirements (continued)

(C) Every fourth quarterly report shall include the following:

(1) A demonstration that annual credits are greater than or equal to annual debits as required by 63.1332(e)(3); and

(2) A certification of compliance with all the emissions averaging provisions in 63.1332.

(xii) The owner or operator of an affected source shall submit quarterly reports for particular emission points and process sections not included in an emissions average as specified in paragraphs (e)(6)(xii)(A) through (e)(6)(xii)(D) of 63.1335.

(A) The owner or operator of an affected source shall submit quarterly reports for a period of 1 year for an emission point or process section that is not included in an emissions average if:

(1) A control or recovery device for a particular emission point or process section has more excursions, as defined in 63.1334(f), than the number of excused excursions allowed under 63.1334(g) for a semiannual reporting period; or

(2) The Administrator requests that the owner or operator submit quarterly reports for the emission point or process section.

(B) The quarterly reports shall include all information specified in paragraphs (e)(6)(iii) through (e)(6)(ix) of 63.1335 applicable to the emission point or process section for which quarterly reporting is required under paragraph (e)(6)(xii)(A) of 63.1335. Information applicable to other emission points within the affected source shall be submitted in the semiannual reports required under paragraph (e)(6)(i) of 63.1335.

(C) Quarterly reports shall be submitted no later than 60 days after the end of each quarter.

(D) After quarterly reports have been submitted for an emission point for 1 year without more excursions occurring (during that year) than the number of excused excursions allowed under 63.1334(g), the owner or operator may return to semiannual reporting for the emission point or process section.

13. [40 CFR 63.1335(e)(7)]

Other reports. Other reports shall be submitted as specified in paragraphs (e)(7)(i) through (e)(7)(iv) of 63.1335.

(i) For storage vessels, the notifications of inspections required by 63.1314 shall be submitted as specified in 63.122 (h)(1) and (h)(2).

(ii) For owners or operators of affected sources required to request approval for a nominal control efficiency for use in calculating credits for an emissions average, the information specified in 63.1332(i) shall be submitted as specified in paragraph (e)(7)(ii)(A) or (B) of 63.1335, as appropriate.

(A) If use of a nominal control efficiency is part of the initial Emissions Averaging Plan described in paragraph (e)(4)(ii) of 63.1335, the information shall be submitted with the Emissions Averaging Plan.

(B) If an owner or operator elects to use a nominal control efficiency after submittal of the initial Emissions Averaging Plan as described in paragraph (e)(4)(ii) of 63.1335, the information shall be submitted at the discretion of the owner or operator.

(iii) When the conditions of 63.1310(f)(3)(iii), 63.1310(f)(9), or 63.1310(f)(10)(iii) are met, reports of changes to the primary product for a TPPU or process unit as required by 63.1310(f)(3)(iii), 63.1310(f)(9), or 63.1310(f)(10)(iii)(C), respectively, shall be submitted.

(iv) Owners or operators of TPPU or emission points (other than equipment leak components subject to 63.1331) that are subject to 63.1310(i)(1) or (i)(2) shall submit a report as specified in paragraphs (e)(7)(iv)(A) and (B) of 63.1335.

IV. Reporting Requirements (continued)

(A) Reports shall include:

- (1) A description of the process change or addition, as appropriate;
- (2) The planned start-up date and the appropriate compliance date, according to 63.1310(i)(1) or (2); and
- (3) Identification of the group status of emission points (except equipment leak components subject to 63.1331) specified in paragraphs (e)(7)(iv)(A)(3)(i) through (e)(7)(iv)(A)(3)(iii) of 63.1335, as applicable.
 - (i) All the emission points in the added TPPU as described in 63.1310(i)(1).
 - (ii) All the emission points in an affected source designated as a new affected source under 63.1310(i)(2)(i).
 - (iii) All the added or created emission points as described in 63.1310(i)(2)(ii) or (i)(2)(iii).
- (4) If the owner or operator wishes to request approval to use alternative monitoring parameters, alternative continuous monitoring or recordkeeping, alternative controls, engineering assessment to estimate emissions from a batch emissions episode, or wishes to establish parameter monitoring levels according to the procedures contained in 63.1334(c) or (d), a Precompliance Report shall be submitted in accordance with paragraph (e)(7)(iv)(B) of 63.1335.

(B) Reports shall be submitted as specified in paragraphs (e)(7)(iv)(B)(1) through (e)(7)(iv)(B)(3) of 63.1335, as appropriate.

- (1) Owners or operators of an added TPPU subject to 63.1310(i)(1) shall submit a report no later than 180 days prior to the compliance date for the TPPU.
- (2) Owners or operators of an affected source designated as a new affected source under 63.1310(i)(2)(i) shall submit a report no later than 180 days prior to the compliance date for the affected source.
- (3) Owners or operators of any emission point (other than equipment leak components subject to 63.1331) subject to 63.1310(i)(2)(ii) or (i)(2)(iii) shall submit a report no later than 180 days prior to the compliance date for those emission points.

14. [40 CFR 63.1335(e)(8)]
Operating permit application. An owner or operator who submits an operating permit application instead of an Emissions Averaging Plan or a Precompliance Report shall include the following information with the operating permit application:

- (i) The information specified in paragraph (e)(4) of 63.1335 for points included in an emissions average; and
- (ii) The information specified in paragraph (e)(3) of 63.1335, Precompliance Report, as applicable.

15. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions not representative of normal operations were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

16. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install #06-4864, issued on February 12, 1997: sections A.IV.1 through A.IV.15. The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

V. Testing Requirements

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

V. Testing Requirements (continued)

1.a Emission Limitation:

Total, point source, VOC emissions shall not exceed 0.20 lb/hr and 0.9 tpy.

Applicable Compliance Method:

Compliance with the lb/hr emission limitation may be demonstrated by multiplying the average hourly polystyrene production rate (tons/hr) in section A.III.63.c by the permittee-supplied VOC emission factor of 0.016 pound per ton of product to obtain the total, point source, VOC emissions, in lb/hr. The emission factor shall be updated whenever additional testing is performed.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the permittee-supplied VOC emission factor of 0.016 pound per ton of product, and by 0.0005 ton/lb to obtain the annual point source VOC emissions, in tpy.

1.b Emission Limitation:

Total, fugitive, VOC emissions shall not exceed 3.61 lbs/hr and 15.8 tpy.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation may be demonstrated by multiplying the average hourly polystyrene production rate (tons/hr) in section A.III.63.c by the permittee-supplied VOC emission factor of 0.2888 pound per ton of product (Chevron Air Emission Inventory Report, Radian Corporation 1995) to obtain the total, fugitive, VOC emissions, in lbs/hr.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the permittee-supplied VOC emission factor of 0.2888 pound per ton of product, and by 0.0005 ton/lb to obtain the annual fugitive VOC emissions, in tpy.

1.c Emission Limitation:

Styrene emissions (point source and fugitive) shall not exceed 2.09 lbs/hr and 9.2 tpy.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation may be demonstrated by multiplying the average hourly polystyrene production rate (tons/hr) in section A.III.63.c by the permittee-supplied styrene emission factor of 0.1672 pound per ton of product (Chevron Air Emission Inventory Report, Radian Corporation 1995) to obtain the styrene emissions, in lbs/hr.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the permittee-supplied styrene emission factor of 0.1672 pound per ton of product, and by 0.0005 ton/lb to obtain the annual styrene emissions, in tpy.

V. Testing Requirements (continued)

1.d Emission Limitation:

Toluene emissions (point source and fugitive) shall not exceed 1.45 lbs/hr and 6.4 tpy.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation may be demonstrated by multiplying the average hourly polystyrene production rate (tons/hr) in section A.III.63.c by the permittee-supplied toluene emission factor of 0.116 pound per ton of product (Chevron Air Emission Inventory Report, Radian Corporation 1995) to obtain the toluene emissions, in lbs/hr.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate in section A.III.64 by the permittee-supplied toluene emission factor of 0.116 pound per ton of product, and by 0.0005 ton/lb to obtain the annual toluene emissions, in tpy.

1.e Emission Limitation:

Cumene emissions (point source and fugitive) shall not exceed 0.13 lb/hr and 0.6 tpy.

Applicable Compliance Method:

Compliance with the lb/hr emission limitation may be demonstrated by multiplying the average hourly polystyrene production rate (tons/hr) in section A.III.63.c by the permittee-supplied cumene emission factor of 0.0104 pound per ton of product (Chevron Air Emission Inventory Report, Radian Corporation 1995) to obtain the cumene emissions, in lb/hr.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the permittee-supplied cumene emission factor of 0.0104 pound per ton of product, and by 0.0005 ton/lb to obtain the annual cumene emissions, in tpy.

1.f Emission Limitation:

Ethylbenzene emissions (fugitive) shall not exceed 0.008 lb/hr and 0.033 tpy.

Applicable Compliance Method:

Compliance with the lb/hr emission limitation may be demonstrated by multiplying the average hourly polystyrene production rate (tons/hr) in section A.III.63.c by the permittee-supplied ethylbenzene emission factor of 0.00064 pound per ton of product (Chevron Air Emission Inventory Report, Radian Corporation 1995) to obtain the ethylbenzene emissions, in lb/hr.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the permittee-supplied ethylbenzene emission factor of 0.00064 pound per ton of product, and by 0.0005 ton/lb to obtain the annual ethylbenzene emissions, in tpy.

1.g Emission Limitation:

Xylene emissions (fugitive) shall not exceed 0.10 lb/hr and 0.43 tpy.

Applicable Compliance Method:

Compliance with the lb/hr emission limitation may be demonstrated by multiplying the average hourly polystyrene production rate (tons/hr) in section A.III.63.c by the permittee-supplied xylene emission factor of 0.008 pound per ton of product (Chevron Air Emission Inventory Report, Radian Corporation 1995) to obtain the xylene emissions, in lb/hr.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the permittee-supplied xylene emission factor of 0.008 pound per ton of product, and by 0.0005 ton/lb to obtain the annual xylene emissions, in tpy.

V. Testing Requirements (continued)

1.h Emission Limitation:

PE shall not exceed 2.66 lbs/hr and 11.6 tons/yr.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated through emission testing performed in accordance with section A.V.2.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the emissions unit-specific PE emission factor, in pound PE per ton of product, established during the most recent emission test, and by 0.0005 ton/lb to obtain the annual particulate emissions, in tpy.

1.i Emission Limitation:

NOx emissions shall not exceed 2.40 lbs/hr and 10.5 tpy.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated through emission testing performed in accordance with section A.V.2.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the emissions unit-specific NOx emission factor, in pound of NOx per ton of product, established during the most recent emission test, and by 0.0005 ton/lb to obtain the annual NOx emissions, in tpy.

1.j Emission Limitation:

CO emissions shall not exceed 0.37 lb/hr and 1.6 tpy.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated through emission testing performed in accordance with section A.V.2.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the emissions unit-specific CO emission factor, in pound of CO per ton of product, established during the most recent emission test, and by 0.0005 ton/lb to obtain the annual CO emissions, in tpy.

1.k Emission Limitation:

SO2 emissions shall not exceed 1.54 lbs/hr and 6.8 tpy.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated through emission testing performed in accordance with section A.V.2.

Compliance with the annual emission limitation shall be demonstrated by multiplying the annual polystyrene production rate (tpy) in section A.III.64 by the emissions unit-specific SO2 emission factor, in pound of SO2 per ton of product, established during the most recent emission test, and by 0.0005 ton/lb to obtain the annual SO2 emissions, in tpy.

V. Testing Requirements (continued)

1.l Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

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

1.m [Emission Limitation: 40 CFR 63.1316(c)(1)(iii)(A)] [Applicable Compliance Method: 40 CFR 63.1318(a)]

Emission Limitation:

The permittee shall reduce the HAP or TOC emissions in a combustion device to achieve 98 weight percent reduction or to achieve a concentration of 20 parts per million by volume (ppmv) on a dry basis, whichever is less stringent. If the permittee elects to comply with the 20 ppmv standard, the concentration shall include a correction to 3 percent oxygen only when supplemental combustion air is used to combust the emissions. Compliance may be based on either organic HAP or TOC.

Applicable Compliance Method:

PET and Polystyrene Affected Sources - Testing and Compliance Demonstration Provisions

Continuous process vents using a control or recovery device to comply with 63.1316 shall comply with the applicable testing and compliance provisions for continuous process vents specified in 63.1315(a) except that, for purposes of this paragraph (a), references to group determinations (i.e., total resource effectiveness) do not apply and owners or operators are not required to comply with 63.113.

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. Emission testing for PE, NO_x, CO, and SO₂ shall be conducted within 6 months after the effective date of this permit, while emissions units P001 and P003 are in operation. Emission testing for PE and NO_x shall also be performed within 6 months prior to permit expiration, while emissions units P001 and P003 are in operation.

b. The emission testing shall be conducted to demonstrate compliance with the mass emission limitations for PE, NO_x, CO, and SO₂.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate: for PE, Methods 1 through 5 of 40 CFR Part 60, Appendix A; for NO_x, Methods 1 through 4 and 7 of 40 CFR Part 60, Appendix A; for CO, Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A; and for SO₂, Methods 1 through 4 and 6 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The tests shall be conducted while emissions units P001 and P003 are operating at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Southeast District Office.

V. Testing Requirements (continued)

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

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

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

3. [40 CFR 63.1333(a)] Additional Requirements for Performance Testing

Performance testing shall be conducted in accordance with 63.7(a)(1), (a)(3), (d), (e)(1), (e)(2), (e)(4), (g), and (h), with the exceptions specified in paragraphs (a)(1) through (a)(5) of 63.1333 and the additions specified in paragraphs (b) through (d) of 63.1333. Sections 63.1314 through 63.1330 also contain specific testing requirements.

(1) Performance tests shall be conducted according to the provisions of 63.7(e)(1) and (e)(2), except that performance tests shall be conducted at maximum representative operating conditions achievable during one of the time periods described in paragraph (a)(1)(i) of 63.1333, without causing any of the situations described in paragraph (a)(1)(ii) of 63.1333 to occur.

(i) The 6-month period that ends 2 months before the Notification of Compliance Status is due, according to 63.1335(e)(5); or the 6-month period that begins 3 months before the performance test and ends 3 months after the performance test.

(ii) Causing damage to equipment; necessitating that the owner or operator make product that does not meet an existing specification for sale to a customer; or necessitating that the owner or operator make product in excess of demand.

(2) The requirements in 63.1335(e)(5) shall apply instead of the references in 63.7(g) to the Notification of Compliance Status requirements in 63.9(h).

(3) Because the site-specific test plans in 63.7(c)(3) are not required, 63.7(h)(4)(ii) is not applicable.

(4) The owner or operator shall notify the Administrator of the intention to conduct a performance test at least 30 days before the performance test is scheduled to allow the Administrator the opportunity to have an observer present during the test. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator by mutual agreement.

(5) Performance tests shall be performed no later than 150 days after the compliance dates specified in this subpart (i.e., in time for the results to be included in the Notification of Compliance Status), rather than according to the time periods in 63.7(a)(2) of subpart A of this part.

V. Testing Requirements (continued)

4. [40 CFR 63.1333(b)]
Each owner or operator of an existing affected source producing MBS complying with 63.1315(b)(2) shall determine compliance with the mass emission per mass product standard by using Equation 49 of this subpart. When determining E_i , when the provisions of 63.116(c)(4) specify that Method 18, 40 CFR part 60, appendix A, shall be used, Method 18 or Method 25A, 40 CFR part 60, appendix A, may be used for the purposes of this subpart. The use of Method 25A, 40 CFR part 60, appendix A, shall conform with the requirements in paragraphs (b)(1) and (b)(2) of 63.1333.
5. [40 CFR 63.1333(c)]
The owner or operator of an affected source, complying with 63.1322(a)(3) shall determine compliance with the percent reduction requirement using Equation 50 of this subpart.
6. [40 CFR 63.1333(d)]
Data shall be reduced in accordance with the EPA approved methods specified in the applicable subpart or, if other test methods are used, the data and methods shall be validated according to the protocol in Method 301 of appendix A of this part.
7. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install #06-4864, issued on February 12, 1997: sections A.V.1 through A.V.6. The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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 - Terms and Conditions for Emissions Units

Emissions Unit ID: Product Handling (P004)
Activity Description: Product Handling

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Polystyrene storage, handling and conveying equipment controlled with eleven baghouses	OAC rule 3745-31-05(A)(3) (PTI 06-4855)	Total particulate emissions shall not exceed 4.18 lbs/hr and 18.3 tpy. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).
	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 3745-17-11(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a All PE from this emissions unit shall be vented to a baghouse.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

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

III. Monitoring and/or Record Keeping Requirements (continued)

2. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 06-4855, issued on February 12, 1997: section A.III.1. The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install #06-4855, issued on February 12, 1997: section A.IV.1. The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

V. Testing Requirements

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

1.a Emission Limitation:

Particulate emissions shall not exceed 4.18 lbs/hr.

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the emission testing methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5. No emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

1.b Emission Limitation:

Particulate emissions shall not exceed 18.3 tpy.

Applicable Compliance Method:

The annual limitation was developed based upon the following calculation using the particulate emission factor provided by the permittee and the maximum annual operating hours:

$4.18 \text{ lbs/hr} \times 8760 \text{ maximum hours of operation/yr} \times 0.0005 \text{ tons/lb} = 18.3 \text{ tpy of particulate emissions}$

Therefore, provided compliance with the hourly limitation is demonstrated, compliance with the annual limitation is also demonstrated.

1.c Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

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

V. Testing Requirements (continued)

2. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install #06-4855, issued on February 12, 1997: sections A.V.1 through A.V.1.c. The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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 - Terms and Conditions for Emissions Units

Emissions Unit ID: Tank No. 530 (T001)
Activity Description: Tank No. 530

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Tank No. 530	None	None
		See A.I.2.a and A.I.2.b below.

2. Additional Terms and Conditions

- 2.a Pursuant to the provisions of OAC rules 3745-21-07(A)(1) and 3745-15-01(O), this emissions unit is an "existing source" which is not located in a "Priority 1" county as indicated in paragraph (A) of OAC rule 3745-21-06. The provisions of OAC rule 3745-21-07(G), therefore, do not apply.
- 2.b [40 CFR 63.1314(d)]
The provisions of 40 CFR Part 63, Subpart JJJ do not apply to storage vessels containing styrene at existing affected sources.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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 - Terms and Conditions for Emissions Units

Emissions Unit ID: Tank No. 531 (T002)
Activity Description: Tank No. 531

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Tank No. 531	None	None See A.I.2.a and A.I.2.b below.

2. Additional Terms and Conditions

- 2.a Pursuant to the provisions of OAC rules 3745-21-07(A)(1) and 3745-15-01(O), this emissions unit is an "existing source" which is not located in a "Priority 1" county as indicated in paragraph (A) of OAC rule 3745-21-06. The provisions of OAC rule 3745-21-07(G), therefore, do not apply.
- 2.b [40 CFR 63.1314(d)]
The provisions of 40 CFR Part 63, Subpart JJJ do not apply to storage vessels containing styrene at existing affected sources.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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 - Terms and Conditions for Emissions Units

Emissions Unit ID: Tank No. 502 (T013)
Activity Description: Tank No. 502

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Tank No. 502	None	None See A.I.2.a and A.I.2.b below.

2. Additional Terms and Conditions

- 2.a Pursuant to the provisions of OAC rules 3745-21-07(A)(1) and 3745-15-01(O), this emissions unit is an "existing source" which is not located in a "Priority 1" county as indicated in paragraph (A) of OAC rule 3745-21-06. The provisions of OAC rule 3745-21-07(G), therefore, do not apply.
- 2.b [40 CFR 63.1314(d)]
The provisions of 40 CFR Part 63, Subpart JJJ do not apply to storage vessels containing styrene at existing affected sources.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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 - Terms and Conditions for Emissions Units

Emissions Unit ID: Tank No. 501 (T014)
Activity Description: Tank No. 501

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Tank No. 501	None	None See A.I.2.a and A.I.2.b below.

2. Additional Terms and Conditions

- 2.a Pursuant to the provisions of OAC rules 3745-21-07(A)(1) and 3745-15-01(O), this emissions unit is an "existing source" which is not located in a "Priority 1" county as indicated in paragraph (A) of OAC rule 3745-21-06. The provisions of OAC rule 3745-21-07(G), therefore, do not apply.
- 2.b [40 CFR 63.1314(d)]
The provisions of 40 CFR Part 63, Subpart JJJ do not apply to storage vessels containing styrene at existing affected sources.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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

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