



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

5/11/2016

Certified Mail

Stephen Lear
Clean Harbors Recycling Services of Ohio L.L.C.
581 Milliken Drive, S.E.
Hebron, OH 43025-9687

Facility ID: 0145020235
Permit Number: P0083737
County: Licking

RE: PRELIMINARY PROPOSED AIR POLLUTION TITLE V PERMIT
Permit Type: Renewal

Dear Permit Holder:

Enclosed is the Ohio Environmental Protection Agency (EPA) Preliminary Proposed Title V permit that was issued in draft form on 3/29/2016. The comment period for the Draft permit has ended. We are now ready to submit this permit to U.S. EPA for approval.

We are submitting this for your review and comment. If you do not agree with the Preliminary Proposed Title V permit as written, you now have the opportunity to raise your concerns. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab. Comments will be accepted as a marked-up copy of the permit or in narrative format. Any comments must be sent to the following within 14 days of your receipt of this letter:

Andrew Hall
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

and Ohio EPA DAPC, Central District Office
50 West Town Street, 6th Floor
P.O. Box 1049
Columbus, OH 43216-1049

If you believe that it is necessary to have an informal conference with us, then, as part of your written comments, you should request a conference concerning the written comments. If comments are not submitted within 14 days of your receipt of this letter, we will forward the proposed permit to U.S. EPA for approval. All comments received will be carefully considered before proceeding with the proposed permit.

Sincerely,

A handwritten signature in black ink that reads "Michael E. Hopkins".

Michael E. Hopkins, P.E
Assistant Chief Permitting Section, DAPC

Cc: Ohio EPA DAPC, Central District Office



Response to Comments

Facility ID:	0145020235
Facility Name:	Clean Harbors Recycling Services of Ohio L.L.C.
Facility Description:	Recycler of Spent Solvents
Facility Address:	581 Milliken Drive, S.E. Hebron, OH 43025-9687 Licking County
Permit:	P0083737, Title V Permit - Renewal
A public notice for the draft permit issuance was published in the Ohio EPA Weekly Review and appeared in the The Newark Advocate on 04/05/2016. The comment period ended on 05/05/2016.	
Hearing date (if held)	
Hearing Public Notice Date (if different from draft public notice)	

The following comments were received during the comment period specified. Ohio EPA reviewed and considered all comments received during the public comment period. By law, Ohio EPA has authority to consider specific issues related to protection of the environment and public health. Often, public concerns fall outside the scope of that authority. For example, concerns about zoning issues are addressed at the local level. Ohio EPA may respond to those concerns in this document by identifying another government agency with more direct authority over the issue.

In an effort to help you review this document, the questions are grouped by topic and organized in a consistent format. PDF copies of the original comments in the format submitted are available upon request.

No public comments were received.



PRELIMINARY PROPOSED

Division of Air Pollution Control Title V Permit

for

Clean Harbors Recycling Services of Ohio L.L.C.

Facility ID:	0145020235
Permit Number:	P0083737
Permit Type:	Renewal
Issued:	5/11/2016
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance



Division of Air Pollution Control
Title V Permit
for
Clean Harbors Recycling Services of Ohio L.L.C.

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Preliminary Proposed Title V Permit
Clean Harbors Recycling Services of Ohio L.L.C.
Permit Number: P0083737
Facility ID: 0145020235
Effective Date: To be entered upon final issuance

Authorization

Facility ID: 0145020235
Facility Description: Recycler of Spent Solvents
Application Number(s): A0014135, A0040371, A0054955
Permit Number: P0083737
Permit Description: Renewal Title V permit for a solvent recycling facility
Permit Type: Renewal
Issue Date: 5/11/2016
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Superseded Permit Number: P0083735

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

Clean Harbors Recycling Services of Ohio L.L.C.
581 Milliken Drive, S.E.
Hebron, OH 43025-9687

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Central District Office
50 West Town Street, 6th Floor
P.O. Box 1049
Columbus, OH 43216-1049
(614)728-3778

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. 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. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Ohio EPA DAPC, Central District Office. 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, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months and no later than 6 months prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Craig W. Butler
Director



Preliminary Proposed Title V Permit
Clean Harbors Recycling Services of Ohio L.L.C.
Permit Number: P0083737
Facility ID: 0145020235
Effective Date: To be entered upon final issuance

A. Standard Terms and Conditions



1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
- (1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions
 - (2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions
 - (3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting For State-Only Requirements
 - (4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (5) Standard Term and Condition A. 30.

(Authority for term: ORC 3704.036(A))

2. Monitoring and Related Record Keeping and Reporting Requirements

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
- (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) 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:
- (1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

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

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

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

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

- (2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the



probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be submitted promptly to the Ohio EPA DAPC, Central District Office. Except as provided below, the written reports shall be submitted by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

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

See A.29 below if no deviations occurred during the quarter.

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

- (3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted to the Ohio EPA DAPC, Central District Office by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally



enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

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

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.

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

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))

- (4) 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." Signature by the Responsible Official may be represented by entry of the personal identification number (PIN) by the Responsible Official as part of the electronic submission process or by the scanned attestation document signed by the Responsible Official that is attached to the electronically submitted written report.

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

- (5) Consistent with A.2.c.1. above, reports of any required monitoring and/or record keeping information required to be submitted to Ohio EPA shall be submitted to Ohio EPA DAPC, Central District Office unless otherwise specified.

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

3. Reporting of Any Exceedence of a Federally Enforceable Emission Limitation or Control Requirement Resulting From Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.

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



4. Risk Management Plans

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

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

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

5. 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))

6. 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))

7. General Requirements

- a) 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 except as provided pursuant to A.16 below.
- c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.11 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.
- f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:
 - (1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
 - (2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
 - (3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminant sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))

8. 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))

9. 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))



10. 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 standard terms and conditions shall apply to all operating scenarios authorized in this permit.

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

11. 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))

12. 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))

13. 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:
- (1) 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.
 - (2) 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.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) 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 Ohio EPA DAPC, Central District Office 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:
- (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) 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 Ohio EPA DAPC, Central District Office) and the Administrator of the U.S. EPA in the following manner and with the following content:
- (1) 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.
 - (2) Compliance certifications shall include the following:
 - a. Identification of each term or condition that is the basis of the certification. The identification may include a statement by the Responsible Official that every term and condition that is federally enforceable has been reviewed, and such terms and conditions with which there has been continuous compliance throughout the year are not separately identified.
 - b. The permittee's current compliance status.



- c. Whether compliance was continuous or intermittent consistent with A.13.d.2.a above.
 - d. The method(s) used for determining the compliance status of the source currently and over the required reporting period consistent with A.13.d.2.a above.
 - e. Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
- (3) 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))

14. 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))

15. 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 Ohio EPA DAPC, Central District Office 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 Ohio EPA DAPC, Central District Office 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))



16. 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))

17. 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 emissions 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.

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

18. 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 Federal Register 8314, Feb. 24, 1997), in the context of any future proceeding.

(This term is provided for informational purposes only.)



19. Insignificant Activities or Emissions Levels

Each IEU that is subject to one or more applicable requirements shall comply with those applicable requirements.

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

20. 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))

21. 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))

22. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the Responsible Official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the Responsible Official that the emissions unit was permanently shut down.

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

Unless otherwise exempted, no emissions unit identified in this permit that has been certified by the Responsible Official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-01)

23. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:



- a) Persons operating appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.
- c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(Authority for term: OAC rule 3745-77-01(H)(11))

24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only

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 Ohio EPA DAPC, Central District Office.
- 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 Ohio EPA DAPC, Central District Office. 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, 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.)

25. Records Retention Requirements Under State Law Only

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.

26. 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.

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

27. Scheduled Maintenance/Malfunction Reporting For State-Only Requirements

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 Ohio EPA DAPC, Central District Office 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).

28. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The Ohio EPA DAPC, Central District Office must be notified in writing of any transfer of this permit.

(Authority for term: OAC rule 3745-77-01(C))

29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

- a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or
- b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potential to emit; or
- c) where the company's Responsible Official has certified that an emissions unit has been permanently shut down.



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30. Submitting Documents Required by this Permit

All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the Ohio EPA DAPC, Central District Office, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the Responsible Official may be represented as provided through procedures established in Air Services.



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B. Facility-Wide Terms and Conditions



1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - a) None.
2. The following emissions units contained in this permit are subject to the New Source Performance Standards (NSPS) Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60, Subpart Dc): B004 and B005. The complete NSPS requirements, including the NSPS General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website: <http://ecfr.gpoaccess.gov> or by contacting the Ohio EPA Central District Office.

[40 CFR Part 60, Subpart Dc]

3. The permittee is subject to the rules of the National Emission Standards for Hazardous Air Pollutants (NESHAP) from Off-Site Waste and Recovery Operations(40 CFR Part 63, Subpart DD) as an existing major source with a compliance date as specified in the final standard. The following emissions units contained in this permit are subject to 40 CFR 63, Subpart DD: P001, P004, P005, P006, P007, P008, P009, P013, P017, T112, T183, T202, T203, T204, T208, T209, T210, T213, T214, and the insignificant emissions units as identified in B.8 below. The complete MACT requirements, including the MACT General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website: <http://ecfr.gpoaccess.gov> or by contacting the Ohio EPA, Central District Office.

The permittee shall comply with the applicable standards, operational restrictions, monitoring and recordkeeping requirements, reporting and notification requirements, and testing requirements established pursuant to 40 CFR Part 63, Subpart DD, including, but not limited to the following relevant sections:

Applicable Rule	Requirement
40 CFR 63.684	Off-Site Material Treatment
40 CFR 63.685	Standards: Tanks
40 CFR 63.686	Standards: Oil-Water and Organic-Water Separators
40 CFR 63.688	Standards: Containers
40 CFR 63.689	Standards: Transfer Systems
40 CFR 63.690	Standards: Process Vents
40 CFR 63.691	Standards: Equipment Leaks
40 CFR 63.693	Standards: Closed-Vent Systems and Control Devices
40 CFR 63.694	Testing Methods and Procedures
40 CFR 63.695	Inspection and Monitoring Requirements
40 CFR 63.696	Recordkeeping Requirements
40 CFR 63.697	Reporting Requirements

[OAC rule 3745-77-07(A)(13) and 40 CFR Part 63, Subpart DD]



4. The permittee is subject to the rules of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Organic Liquids Distribution (Non-Gasoline) (40 CFR Part 63, Subpart EEEE) as an existing major source with a compliance date as specified in the final standard. Emissions units in organic liquids distribution that receive off-site materials and are considered part of the affected source regulated under 40 CFR Part 63, Subpart DD are excluded from the affected source subject to 40 CFR Part 63, Subpart EEEE. The following emissions units contained in this permit are subject to 40 CFR 63, Subpart EEEE: J002, J003, P012, T095, T211, T212, T225, T226 and the insignificant emissions units as identified in B.8 below. The complete MACT requirements, including the MACT General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website: <http://ecfr.gpoaccess.gov> or by contacting the Ohio EPA, Central District Office.

The permittee shall comply with the applicable standards, operational restrictions, monitoring and recordkeeping requirements, reporting and notification requirements, and testing requirements established pursuant to 40 CFR Part 63, Subpart EEEE, including, but not limited to the following relevant sections:

Applicable Rule(s)	Requirement
40 CFR 63.2346	Emission Limitations, Operating Limits, and Work Practice Standards
40 CFR 63.2350	General Compliance Requirements
40 CFR 63.2354 – 63.2370	Testing and Initial Compliance Requirements
40 CFR 63.2374 – 63.2378	Continuous Compliance Requirements
40 CFR 63.2382 – 63.2394	Notifications, Reports, and Records
40 CFR 63.2396 – 63.2406	Other Requirements and Information

[OAC rule 3745-77-07(A)(13) and 40 CFR Part 63, Subpart EEEE]

5. The permittee is subject to the rules of the National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63, Subpart ZZZZ). The following emissions units contained in this permit are subject to the requirements for existing RICE located at a major source of HAP emissions in 40 CFR Part 63, Subpart ZZZZ: B006 (Emergency water pump - 113 HP - distillate oil) and B007 (Emergency electrical generator - 33 KW - natural gas). The complete MACT requirements, including the MACT General Provisions may be accessed via the Internet from the Electronic Code of Federal Regulations (e-CFR) website <http://www.ecfr.gpoaccess.gov> or by contacting the Ohio EPA, Central District Office.

The permittee shall comply with the applicable standards, operational restrictions, monitoring and recordkeeping requirements, reporting and notification requirements, and testing requirements established pursuant to 40 CFR Part 63, Subpart ZZZZ, including, but not limited to the following relevant sections:

Applicable Rule(s)	Requirement
40 CFR 63.6602	Emission and Operating Limitations
40 CFR 63.6605	General Compliance Requirements
40 CFR 63.6612 – 63.6630	Testing and Initial Compliance Requirements
40 CFR 63.6635 – 63.6640	Continuous Compliance Requirements
40 CFR 63.6645 – 63.6660	Notifications, Reports, and Records



Applicable Rule(s)	Requirement
40 CFR 63.6665 – 63.6675	Other Requirements and Information

[OAC rule 3745-77-07(A)(13) and 40 CFR Part 60, Subpart ZZZZ]

6. The permittee is subject to the rules of the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR Part 63, Subpart DDDDD). The following emissions units contained in this permit are subject to 40 CFR Part 63, Subpart DDDDD: B004 and B005. The complete MACT requirements, including the MACT General Provisions may be accessed via the Internet from the Electronic Code of Federal Regulations (e-CFR) website <http://www.ecfr.gpoaccess.gov> or by contacting the Ohio EPA, Central District Office.

[40 CFR Part 60, Subpart DDDDD]

8. The following insignificant emissions units at this facility must comply with all applicable State and federal regulations, as well as any emissions limitations and/or control requirements contained within the identified permit-to-install for the emissions unit. The insignificant emissions units listed below are subject to one or more applicable requirements contained in a permit-to-install or in the SIP approved versions of OAC Chapters 3745-17, 3745-18, 3745-21, and 3745-31, and/or 40 CFR Part 60 or 63:

B006	Emergency water pump - 113 HP - distillate oil	Permit-by-rule and 40 CFR Part 63, Subpart ZZZZ
B007	Emergency electrical generator - 33 KW - natural gas	Permit-by-rule and 40 CFR Part 63, Subpart ZZZZ
P012	Drum Filling Station	40 CFR Part 63, Subpart EEEE
T091	Fuels Blending Intermediate Material Storage-208	PTI 01-1100 and 40 CFR Part 63, Subpart EEEE
T096	Fuel Blending Offsite Material Storage-203	PTI 01-1100 and 40 CFR Part 63, Subpart EEEE
T101	Fuel Blending Offsite Material Storage-204	PTI 01-1100 and 40 CFR Part 63, Subpart DD
T102	Fuels Blending Offsite Material Storage-205	PTI 01-1100 and 40 CFR Part 63, Subpart DD
T103	Fuels Blending Offsite Material Storage-209	PTI 01-1100 and CFR Part 63, Subpart DD
T106	Flammable/Ignitable Intermediate Storage-48B	PTI 01-1282 and 40 CFR Part 63, Subpart EEEE
T107	Chlorinated Offsite Material Storage-83B	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T108	Chlorinated Offsite Material Storage-84B	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T109	Chlorinated Offsite Material Storage-89B	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T110	Chlorinated Offsite Material Storage-92B	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T111	Chlorinated Offsite Material Storage-94B	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T132	Flammable/Ignitable Offsite Material-32	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T133	Flammable/Ignitable Offsite Material-33	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T134	Flammable/Ignitable Offsite Material-34	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T135	Flammable/Ignitable Offsite Material-35	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T136	Flammable /Ignitable Offsite Material-36	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T137	Flammable/Ignitable Offsite Material-37	PTI 01-1282 and 40 CFR Part 63, Subpart DD



T139	Flammable/Ignitable Offsite Material-39	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T140	Flammable/Ignitable Offsite Material-40	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T141	Flammable/Ignitable Offsite Material-41	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T142	Flammable/Ignitable Offsite Material-42	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T143	Flammable/Ignitable Offsite Material-43	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T144	Flammable/Ignitable Offsite Material-44	PTI P0108174 and 40 CFR Part 63, Subpart DD
T145	Flammable/Ignitable Offsite Material-45	PTI P0108174 and 40 CFR Part 63, Subpart DD
T148	Flammable/Ignitable Intermediate Storage-48A	PTI 01-1282 and 40 CFR Part 63, Subpart EEEE
T149	Flammable/Ignitable Offsite Material-49	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T150	Flammable/Ignitable Offsite Material-50	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T151	Flammable/Ignitable Offsite Material-51	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T152	Flammable/Ignitable Offsite Material-52	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T153	Flammable/Ignitable Offsite Material-53	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T156	Flammable/Ignitable Offsite Material-56	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T157	Flammable/Ignitable Offsite Material-57	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T158	Flammable/Ignitable Offsite Material-58	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T159	Flammable/Ignitable Offsite Material-59	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T160	Flammable/Ignitable Offsite Material-60	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T161	Flammable/Ignitable Offsite Material-61	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T163	Flammable/Ignitable Offsite Material-63	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T164	Flammable/Ignitable Offsite Material-64	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T165	Flammable/Ignitable Offsite Material-65	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T166	Flammable./Ignitable Offsite Material-66	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T167	Flammable/Ignitable Offsite Material-67	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T168	Flammable/Ignitable Offsite Material-68	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T169	Flammable/Ignitable Offsite Material-69	PTI 01-1282 and 40 CFR Part 63, Subpart DD
T180	Chlorinated Offsite Material Storage-80	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T181	Chlorinated Offsite Material Storage-81	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T182	Chlorinated Offsite Material Storage-82	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T184	Chlorinated Offsite Material Storage-84A	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T185	Chlorinated Offsite Material Storage-85	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T186	Chlorinated Offsite Material Storage-86	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T187	Chlorinated Offsite Material Storage-87	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T188	Chlorinated Offsite Material Storage-88	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T189	Chlorinated Offsite Material Storage-89A	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T190	Chlorinated Offsite Material Storage-90	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T191	Chlorinated Offsite Material Storage-91	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T192	Chlorinated Offsite Material Storage-92A	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T193	Chlorinated Offsite Material Storage-93	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T194	Chlorinated Offsite Material Storage-94A	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T195	Chlorinated Offsite Material Storage-95	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T200	Chlorinated Offsite Material Storage-100	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T201	Chlorinated Intermediate Material Storage-101	PTI 01-1324 and 40 CFR Part 63, Subpart EEEE
T205	Chlorinated Offsite Material Storage-105	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T206	Chlorinated Intermediate Material	PTI 01-1324 and 40 CFR Part 63, Subpart EEEE



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	Storage-106	
T207	Chlorinated Offsite Material Storage-107	PTI 01-1324 and 40 CFR Part 63, Subpart DD
T230	Product Storage-130	PTI 01-1324 and 40 CFR Part 63, Subpart EEEE
T232	Product Storage-132	PTI 01-1324 and 40 CFR Part 63, Subpart EEEE
T237	Product Storage-137	PTI 01-1324 and 40 CFR Part 63, Subpart EEEE
T247	Product Storage-147	PTI 01-1324 and 40 CFR Part 63, Subpart EEEE
T248	Flammable/Ignitable Offsite Material-98	PTI 01-4544 and 40 CFR Part 63, Subpart DD

[OAC rule 3745-77-07(A)(13)]



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C. Emissions Unit Terms and Conditions



1. B004, 20.9 MMBtu/hr Boiler

Operations, Property and/or Equipment Description:

20.9 MMBtu/hr Boiler burning natural gas

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-10(B)(1)	Particulate emissions(PE) shall not exceed 0.020 lb/MMBtu of actual heat input.
c.	OAC rule 3745-31-05(A)(3) [PTI 01-2876]	<p>Sulfur dioxide (SO₂) emissions shall not exceed 0.0006 lb/MMBtu.</p> <p>Nitrogen oxides (NO_x) emissions shall not exceed 0.13 lb/MMBtu.</p> <p>Carbon monoxide (CO) emissions shall not exceed 0.084 lb/MMBtu.</p> <p>Volatile organic compound (VOC) emissions shall not exceed 0.0055 lb/MMBtu.</p> <p>PE shall not exceed 0.0099 lb/MMBtu.</p> <p>The requirements established pursuant to this rule include compliance with the requirements of OAC rule 3745-17-07(A) and 40 CFR Part 60, Subpart Dc.</p> <p>See c)(1) below.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	40 CFR Part 60, Subpart Dc	See c)(1) below.
e.	40 CFR Part 63, Subpart DDDDD [In accordance with 40 CFR 63.7490, this emissions unit is an existing boiler located at a major source facility.]	See b)(2)a. and b)(2)b. below.
f.	40 CFR Part 63, Subpart A	See b)(2)c. below.

(2) Additional Terms and Conditions

- a. This emissions unit shall be operated in accordance with the definition of a “unit designed to burn gas 1 subcategory” pursuant to 40 CFR 63.7575 as follows. “*Unit designed to burn gas 1 subcategory* includes any boiler or process heater that burns only natural gas, refinery gas, and/or other gas 1 fuels. Gaseous fuel boilers and process heaters that burn liquid fuel for periodic testing of liquid fuel, maintenance, or operator training, not to exceed a combined total of 48 hours during any calendar year, are included in this definition. Gaseous fuel boilers and process heaters that burn liquid fuel during periods of gas curtailment or gas supply interruptions of any duration are also included in this definition.”
- b. The following work practice standards apply to this emissions unit:
 - i. Conduct a tune-up of the boiler annually as specified in §63.7540. Each annual tune-up must be no more than 13 months after the previous tune-up [40 CFR 63.7515(d)]. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup [40 CFR 63.7540(a)(13)].
 - ii. Must have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in this table, satisfies the energy assessment requirement. A facility that operated under an energy management program developed according to the ENERGY STAR guidelines for energy management or compatible with ISO 50001 for at least one year between January 1, 2008 and the compliance date specified in §63.7495 that includes the affected units also satisfies the energy assessment requirement. The energy assessment must include the following with extent of the evaluation for items a. to e. appropriate for the on-site technical hours listed in §63.7575:
 - (a) A visual inspection of the boiler system.
 - (b) An evaluation of operating characteristics of the boiler system, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints.



- (c) An inventory of major energy use systems consuming energy from affected boilers and process heaters and which are under the control of the boiler/process heater owner/operator.
 - (d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage.
 - (e) A review of the facility's energy management program and provide recommendations for improvements consistent with the definition of energy management program, if identified.
 - (f) A list of cost-effective energy conservation measures that are within the facility's control.
 - (g) A list of the energy savings potential of the energy conservation measures identified.
 - (h) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
- iii. At all times, the permittee shall operate and maintain this emissions unit in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to Ohio EPA that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.7500 and Table 3 to Subpart DDDDD of 40 CFR Part 63 - "Work Practice Standards"]

- c. Table 10 to Subpart DDDDD of 40 CFR Part 63 - "Applicability of General Provisions to Subpart DDDDD" identifies which parts of the General Provisions (Subpart A) in 40 CFR Part 63.1-16 apply.

c) Operational Restrictions

- (1) The permittee shall burn only natural gas in this emissions unit.

[OAC rule 3745-31-05(A)(3), OAC rule 3745-77-07(A)(1) and 40 CFR Part 60, Subpart Dc]

d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (2) The permittee shall maintain one of the following records:



- a. The amount of natural gas combusted during each operating day;
- b. The amount of natural gas combusted during each calendar month; or
- c. The total amount of natural gas delivered for burning in this emissions unit during each month.

[OAC rule 3745-77-07(C)(1) and 40 CFR 60.48c]

- (3) The permittee shall conduct the annual tune-up while burning natural gas. The tune-up shall consist of the following:
- a. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the permittee may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;
 - b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
 - c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the permittee may delay the inspection until the next scheduled unit shutdown);
 - d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject; and
 - e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

[OAC rule 3745-77-07(C)(1) and 40 CFR 63.7540(a)(10)]

- (4) The permittee shall maintain the following information for each annual tune-up:
- a. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;
 - b. A description of any corrective actions taken as a part of the tune-up; and
 - c. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of



fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

[OAC rule 3745-77-07(C)(1) and 40 CFR 63.7540(a)(10)]

- (5) The permittee shall maintain records in accordance with 40 CFR 63.7555, including the following paragraphs:

40 CFR 63.7555(a)(1)	a copy of each notification and report submitted
40 CFR 63.7555(h)	the total hours per calendar year that alternative fuel is burned
40 CFR 63.7555(i)	calendar date, time, occurrence and duration of each startup and shutdown
40 CFR 63.7555(j)	the type(s) and amount(s) of fuels used during each startup and shutdown

[OAC rule 3745-77-07(C)(1) and 40 CFR 63.7555]

- (6) The records required in d)(3), d)(4) and d)(5) shall be in a form suitable and readily available for expeditious review, in accordance with 40 CFR 63.10(b)(1).

- a. As specified in §63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- b. The permittee shall keep each record on site, or they shall be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). The permittee can keep the records off site for the remaining 3 years.

[OAC rule 3745-77-07(C)(1) and 40 CFR 63.7560]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) The permittee shall submit notifications and reports in accordance with the requirements of 40 CFR Part 63, Subpart DDDDD, including the following sections:

40 CFR 63.7530(e)	notification of compliance status certifying that the energy assessment was completed and is an accurate depiction of the facility at the time of the assessment
40 CFR 63.7530(f)	notification of compliance status containing the results of the initial compliance demonstration in according to the requirements in 63.7545(e)



40 CFR 63.7545(e)	the notification of compliance status shall contain the information specified in 63.7545(e)(1) and (8)
40 CFR 63.7545(f)	notification of alternative fuel use
40 CFR 63.7545(h)	notification of a change that results in the applicability of a different subcategory under 63.7499
40 CFR 63.7550(b)	compliance reports shall be submitted annually; the first annual compliance report shall be postmarked or submitted no later than January 31, 2017; each subsequent compliance report shall cover January 1 to December 31 and shall be submitted no later than January 31
40 CFR 63.7550(c)	compliance reports shall contain the information in paragraphs (c)(5)(i) through (iv) and (xiv) of 63.7550
40 CFR 63.7550(h)(3)	submission of reports to U.S. EPA

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DDDDD]

f) **Testing Requirements**

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

[OAC rule 3745-17-03(B)(1)(a) and OAC rule 3745-77-07(C)(1)]

b. Emissions Limitations

PE shall not exceed 0.020 lb/MMBtu of actual heat input.

Sulfur dioxide (SO₂) emissions shall not exceed 0.0006 lb/MMBtu.

Nitrogen oxides (NO_x) emissions shall not exceed 0.13 lb/MMBtu.

Carbon monoxide (CO) emissions shall not exceed 0.084 lb/MMBtu.

Volatile organic compound (VOC) emissions shall not exceed 0.0055 lb/MMBtu.

PE shall not exceed 0.0099 lb/MMBtu.



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Applicable Compliance Method

Compliance with the lb/MMBtu limitations is inherent based on the emissions factors for each pollutant found in "Compilation of Air Pollutant Emission Factors," AP-42, Tables 1.3-1, 1.3-3, 1.4-1, and 1.4-2.

If required, compliance shall be demonstrated through emissions testing conducted in accordance with the following test methods: 40 CFR Part 60, Appendix A, Methods 1-4 and Method 5 for PE, Method 7 for NO_x, Method 10 for CO, Method 6 for SO₂ and Methods 18, 25, or 25A for VOC.

[OAC rule 3745-77-07(C)(1)]

- g) Miscellaneous Requirements
 - (1) None.



2. B005, 12.25 MMBtu/hr Boiler

Operations, Property and/or Equipment Description:

300 HP Boiler burning natural gas

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-10(B)(1)	Particulate emissions(PE) shall not exceed 0.020 lb/MMBtu of actual heat input.
c.	OAC rule 3745-31-05(A)(3) [Best Available Technology for NO _x , CO, VOC, PM ₁₀ , PM _{2.5} and SO ₂]	The Best Available Technology (BAT) requirements established pursuant to this rule are equivalent to the work practice standards of 40 CFR Part 63, Subpart DDDDD. See b)(2)a. and b)(2)d. below.
d.	OAC rule 3745-31-05(A)(3)(a)(ii)	The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the NO _x , CO, VOC, PM ₁₀ , PM _{2.5} and SO ₂ emissions from this air contaminant source since the potentials to emit are less than 10 tons per year. See b)(2)b. below.
e.	40 CFR Part 60, Subpart Dc	See c)(1) below.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
f.	40 CFR Part 63, Subpart DDDDD [This emissions unit is anew boiler located at a major source facility. 40 CFR 63.7490]	See b)(2)c. and b)(2)d. below.
g.	40 CFR Part 63, Subpart A	See b)(2)e. below.

(2) Additional Terms and Conditions

- a. These Best Available Technology (BAT) emission limits apply until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- b. This requirement applies once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.
- c. This emissions unit shall be operated in accordance with the definition of a “unit designed to burn gas 1 subcategory” pursuant to 40 CFR 63.7575 as follows. *“Unit designed to burn gas 1 subcategory* includes any boiler or process heater that burns only natural gas, refinery gas, and/or other gas 1 fuels. Gaseous fuel boilers and process heaters that burn liquid fuel for periodic testing of liquid fuel, maintenance, or operator training, not to exceed a combined total of 48 hours during any calendar year, are included in this definition. Gaseous fuel boilers and process heaters that burn liquid fuel during periods of gas curtailment or gas supply interruptions of any duration are also included in this definition.”
- d. The following work practice standards apply to this emissions unit:
 - i. Conduct a tune-up of the boiler annually as specified in §63.7540. Each annual tune-up must be no more than 13 months after the previous tune-up [40 CFR 63.7515(d)]. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup [40 CFR 63.7540(a)(13)].
 - ii. At all times, the permittee shall operate and maintain this emissions unit in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to Ohio EPA that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.7500 and Table 3 to Subpart DDDDD of 40 CFR Part 63 - "Work Practice Standards"]



- e. Table 10 to Subpart DDDDD of 40 CFR Part 63 - "Applicability of General Provisions to Subpart DDDDD" identifies which parts of the General Provisions (Subpart A) in 40 CFR Part 63.1-16 apply.
- c) Operational Restrictions
 - (1) The permittee shall burn only natural gas in this emissions unit.
[OAC rule 3745-31-05(A)(3), OAC rule 3745-77-07(A)(1) and 40 CFR Part 60, Subpart Dc]
- d) Monitoring and/or Recordkeeping Requirements
 - (1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[OAC rule 3745-77-07(A)(3)(a)(ii)]
 - (2) The permittee shall maintain monthly records of the amount of natural gas (in MMft³) combusted in this emissions unit.
[PTI P0106925, OAC rule 3745-77-07(C)(1) and 40 CFR 60.48c]
 - (3) The permittee shall conduct the annual tune-up while burning natural gas. The tune-up shall consist of the following:
 - a. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the permittee may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;
 - b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
 - c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the permittee may delay the inspection until the next scheduled unit shutdown);
 - d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject; and
 - e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.



[OAC rule 3745-77-07(C)(1) and 40 CFR 63.7540(a)(10)]

- (4) The permittee shall maintain the following information for each annual tune-up:
 - a. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;
 - b. A description of any corrective actions taken as a part of the tune-up; and
 - c. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

[OAC rule 3745-77-07(C)(1) and 40 CFR 63.7540(a)(10)]

- (5) The permittee shall maintain records in accordance with 40 CFR 63.7555, including the following paragraphs:

40 CFR 63.7555(a)(1)	a copy of each notification and report submitted
40 CFR 63.7555(h)	the total hours per calendar year that alternative fuel is burned
40 CFR 63.7555(i)	calendar date, time, occurrence and duration of each startup and shutdown
40 CFR 63.7555(j)	the type(s) and amount(s) of fuels used during each startup and shutdown

[OAC rule 3745-77-07(C)(1) and 40 CFR 63.7555]

- (6) The records required in d)(3), d)(4) and d)(5) shall be in a form suitable and readily available for expeditious review, in accordance with 40 CFR 63.10(b)(1).
 - a. As specified in §63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
 - b. The permittee shall keep each record on site, or they shall be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). The permittee can keep the records off site for the remaining 3 years.

[OAC rule 3745-77-07(C)(1) and 40 CFR 63.7560]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(A)(3)(c)]



- (2) The permittee shall submit notifications and reports in accordance with the requirements of 40 CFR Part 63, Subpart DDDDD, including the following sections:

40 CFR 63.7530(f)	notification of compliance status containing the results of the initial compliance demonstration in according to the requirements in 63.7545(e)
40 CFR 63.7545(e)	the notification of compliance status shall contain the information specified in 63.7545(e)(1) and (8)
40 CFR 63.7545(f)	notification of alternative fuel use
40 CFR 63.7545(h)	notification of a change that results in the applicability of a different subcategory under 63.7499
40 CFR 63.7550(b)	annual compliance reports covering January 1 to December 31 shall be submitted no later than January 31
40 CFR 63.7550(c)	compliance reports shall contain the information in paragraphs (c)(5)(i) through (iv) and (xiv) of 63.7550
40 CFR 63.7550(h)(3)	submission of reports to U.S. EPA

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DDDDD]

f) **Testing Requirements**

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

[OAC rule 3745-17-03(B)(1)(a) and OAC rule 3745-77-07(C)(1)]

b. Emissions Limitation

PE shall not exceed 0.020 lb/MMBtu of actual heat input.

Applicable Compliance Method

Compliance with the lb/MMBtulimitation is inherent based on the emissions factors for each pollutant found in "Compilation of Air Pollutant Emission Factors," AP-42, Tables 1.3-1, 1.3-3, 1.4-1, and 1.4-2.



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If required, compliance shall be demonstrated through emissions testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and Method 5.

[OAC rule 3745-77-07(C)(1)]

- g) Miscellaneous Requirements
 - (1) None.



3. Emissions Unit Group -Loading Racks: J002 and J003

EU ID	Operations, Property and/or Equipment Description
J002	Loading Rack for bulk truck loading
J003	Loading Rack for bulk truck loading

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) [PTI 01-1574]	OC emissions shall not exceed 1.8 pounds per hour. See b)(2)a. below.
b.	40 CFR Part 63, Subpart EEEE [This emissions unit is an existing organic liquids transfer rack located at a major source facility. 40 CFR 63.2338]	The permittee shall be in compliance with the emissions limitations, operating limits, and work practice standards in this subpart at all times when the transfer rack is in organic liquid distribution operation. [40 CFR 63.2350(a)] See b)(2)b. through b)(2)f. and c)(1) below.
c.	40 CFR Part 63, Subpart A	See b)(2)g. below.

(2) Additional Terms and Conditions

a. The permittee shall employ a vapor balance system when this emissions unit is in operation.

b. The permittee shall comply with one of the following requirements:

i. The permittee shall reduce emissions of total organic HAP (or, upon approval, TOC) from the loading of organic liquids either by venting the emissions that occur during loading through a closed vent system to any combination of control devices meeting the applicable requirements of 40



CFR part 63, Subpart SS, achieving at least 98 weight-percent HAP reduction, OR, as an option, to an exhaust concentration less than or equal to 20 ppmv, on a dry basis corrected to 3 percent oxygen for combustion devices using supplemental combustion air; or

- ii. The permittee shall install and, during the loading of organic liquids, operate a vapor balancing system to route organic HAP vapors displaced from loading of organic liquids into transport vehicles to the storage tank from which the liquid being loaded originated or to another storage tank connected to a common header; or
- iii. The permittee shall comply with the requirements of §63.984 (40 CFR Part 63, Subpart SS) during the loading of organic liquids, for routing emissions to a fuel gas system or back to a process.

[40 CFR 63.2346(b) and Table 2 to Subpart EEEE of 40 CFR Part 63 - "Emission Limits"]

- c. For each transport vehicle equipped with vapor collection equipment that is loaded at this emissions unit, the loadings of liquid product into transport vehicles shall be limited to vapor-tight transport vehicles using the following procedures:
 - i. The permittee shall obtain the vapor tightness documentation described in 40 CFR 60.505(b) for each transport vehicle which is to be loaded at the affected facility.
 - ii. The permittee shall require the tank identification number to be recorded as each transport vehicle is loaded at the affected facility.
 - iii. The permittee shall cross-check each tank identification number obtained in paragraph b)(2)c.ii. of this section with the file of tank vapor tightness documentation within 2 weeks after the corresponding tank is loaded, unless either of the following conditions is maintained:
 - (a) If less than an average of one transport vehicle per month over the last 26 weeks is loaded without vapor tightness documentation then the documentation cross-check shall be performed each quarter; or
 - (b) If less than an average of one transport vehicle per month over the last 52 weeks is loaded without vapor tightness documentation then the documentation cross-check shall be performed semiannually.

If either the quarterly or semiannual cross-check provided in paragraphs b)(2)c.iii.(a) through (b) of this section reveals that these conditions were not maintained, the permittee must return to biweekly monitoring until such time as these conditions are again met.



- iv. The permittee shall notify the owner or operator of each non-vapor-tight transport vehicle loaded at the facility within 1 week of the documentation cross-check in paragraph b)(2)c.iii. of this section.
- v. The permittee shall take steps assuring that the nonvapor-tight transport vehicle will not be reloaded at the facility until vapor tightness documentation for that tank is obtained.

[40 CFR 63.2346(d) and Table 4 to Subpart EEEE of 40 CFR Part 63 - "Work Practice Standards"]

- d. For each transport vehicle equipped with vapor collection equipment that is loaded at this emissions unit, the following requirements apply:
 - i. The permittee shall act to assure that loadings of transport vehicle at the facility are made only into tanks equipped with vapor collection equipment that is compatible with the facility's vapor collection system.
 - ii. The permittee shall act to assure that the facility's and the transport vehicle's vapor collection systems are connected during each loading of a transport vehicle. Examples of actions to accomplish this include training drivers in the hookup procedures and posting visible reminder signs at the affected loading racks.
 - iii. The vapor collection and liquid loading equipment shall be designed and operated to prevent gauge pressure in the delivery tank from exceeding 4,500 pascals (450 mm of water) during product loading. This level is not to be exceeded when measured by the procedures specified in 40 CFR 60.503(d).
 - iv. No pressure-vacuum vent in facility's vapor collection system shall begin to open at a system pressure less than 4,500 pascals (450 mm of water).

[40 CFR 63.2346(d) and Table 4 to Subpart EEEE of 40 CFR Part 63 - "Work Practice Standards"]

- e. For each transport vehicle without vapor collection equipment that is loaded at this emissions unit, the permittee shall ensure that organic liquids are loaded only into transport vehicles that have a current certification in accordance with the U.S. Department of Transportation (DOT) pressure test requirements in 49 CFR part 180 for cargo tanks or 49 CFR 173.31 for tank cars.

[40 CFR 63.2346(d) and Table 4 to Subpart EEEE of 40 CFR Part 63 - "Work Practice Standards"]

- f. For each pump, valve, and sampling connection that operates in organic liquids service for at least 300 hours per year, the permittee must comply with the applicable requirements under 40 CFR Part 63, Subpart TT (control level 1), Subpart UU (control level 2), or Subpart H. Pumps, valves, and sampling connectors that are insulated to provide protection against persistent sub-



freezing temperatures are subject to the "difficult to monitor" provisions in the applicable subpart selected by the permittee.

[40 CFR 63.2346(c)]

- g. Table 12 to Subpart EEEE of 40 CFR Part 63 - "Applicability of General Provisions to Subpart EEEE" identifies which parts of the General Provisions in 40 CFR Part 63.1-16 apply.

c) Operational Restrictions

- (1) For each high throughput transfer rack (i.e., each transfer rack that transfers at least 11.8 million liters per year of organic liquids), the permittee shall meet each operating limit in Table 3 to Subpart EEEE of 40 CFR Part 63 - "Operating Limits – High Throughput Transfer Racks" for each control device used to comply with the provisions of 40 CFR Part 63, Subpart EEEE whenever emissions from the loading of organic liquids are routed to the control device. For each low throughput transfer rack, the permittee shall comply with the requirements for monitored parameters as specified in 40 CFR Part 63, Subpart SS for low throughput transfer racks. Alternatively, the permittee may comply with the operating limits in Table 3 to Subpart EEEE.

[OAC rule 3745-77-07(A)(1) and 40 CFR 63.2346(e)]

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain daily records of the following information:
 - a. the emissions unit's operating time (in hours);
 - b. the total throughput of each organic liquid product loaded (in gallons);
 - c. the total OC emissions from all organic liquid products loaded (in pounds), calculated using the loading loss formula in AP-42, Section 5.2 for each organic product loaded; and
 - d. the average hourly OC emissions (in pounds), calculated by dividing the total OC emissions in c. above by the emissions unit's operating time in a. above.

[OAC rule 3745-77-07(C)(1)]

- (2) The permittee shall maintain a record of all periods of time when the vapor balance system was not employed when this emissions unit was in operation.

[OAC rule 3745-77-07(C)(1)]

- (3) The permittee shall comply with the applicable monitoring and/or recordkeeping requirements of 40 CFR Part 63, Subpart EEEE, including the following sections:



40 CFR 63.2350(b)	operate and maintain the affected source according to 40 CFR 63.6(e)(1)(i)
40 CFR 63.2350(c)	develop a written startup, shutdown and malfunction plan according to 40 CFR 63.6(e)(3)
40 CFR 63.2378(b)	applicable requirements during startup, shutdown, malfunction and nonoperation of the affected source
40 CFR 63.2354(a)(2)	use the procedures specified in 40 CFR Part 63, Subpart SS for each design evaluation
40 CFR 63.2366(a)	install, operate and maintain a continuous monitoring system on each control device
	comply with applicable requirements in 40 CFR Part 63, Subpart SS for continuous parametric monitoring systems
	comply with the requirements in 40 CFR 63.8 for continuous emissions monitoring systems
40 CFR 63.2374(a)	monitor and collect data according to 40 CFR Part 63, Subpart SS and 40 CFR 63.2374(b) and (c)
40 CFR 63.2378(a)	demonstrate continuous compliance with each applicable emission limitation, operating limit and work practice standard in accordance with the methods specified in 40 CFR Part 63, Subpart SS and Tables 8 through 10 of 40 CFR Part 63, Subpart EEEE.
40 CFR 63.2390(b)	keep all records identified in 40 CFR Part 63, Subpart SS and Tables 8 through 10 and 12 of 40 CFR Part 63, Subpart EEEE
40 CFR 63.2390(d)	keep records of the total actual annual facility-level organic liquid loading volume as defined in 40 CFR 63.2406
40 CFR 63.2378(c)	limitation on periods of planned routine maintenance of a control device
40 CFR 63.2378(d)	limitation on bypassing the routing of emissions to a fuel gas system or process
40 CFR 63.2362(b)(1)	perform annual vapor tightness testing for transport vehicles with vapor collection equipment
40 CFR 63.2362(b)(2)	maintain current certification for transport vehicles that do not have vapor collection equipment
40 CFR 63.2390(c)	keep the specified records for each transport vehicle into which organic liquids are loaded

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart EEEE]

- (4) The records required in d)(3) shall be in a form suitable and readily available for expeditious review, in accordance with 40 CFR 63.10(b)(1).
- a. As specified in §63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.



- b. The permittee shall keep each record on site, or they shall be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). The permittee can keep the records off site for the remaining 3 years.

[OAC rule 3745-77-07(C)(1) and 40 CFR 63.2394]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the hourly OC emissions limitation; and
 - b. all periods of time when the vapor balance system was not employed when this emissions unit was in operation.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) The permittee shall comply with the applicable notifications and reporting requirements of 40 CFR Part 63, Subpart EEEE, including the following sections:

40 CFR 63.2382	submit notifications in accordance with 40 CFR Part 63, Subpart SS; Table 12 of 40 CFR Part 63, Subpart EEEE; and 63.2382(b) through (d)
40 CFR 63.2386	submit reports, including semiannual compliance reports, in accordance with 40 CFR Part 63, Subpart SS; Tables 11 and 12 of 40 CFR Part 63, Subpart EEEE; and 63.2386(c) through (e)
40 CFR 63.2366(b)	for nonflare control devices controlling low throughput transfer racks, submit a monitoring plan in accordance with the requirements in 40 CFR Part 63, Subpart SS
40 CFR 63.2370(c) and 63.2382(d)	submit a notification of compliance status for an initial performance test, design evaluation, or other compliance demonstration
40 CFR 63.2396	identify other subparts being complied with in the notification of compliance status required by 40 CFR 63.2382(b)

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart EEEE]

f) Testing Requirements

- (1) For transfer racks electing to comply with the requirements of 40 CFR 63.2346(b) by venting to the regenerative fume oxidizer (RFO), the permittee shall conduct emissions testing in accordance with the following requirements:



Preliminary Proposed Title V Permit
Clean Harbors Recycling Services of Ohio L.L.C.
Permit Number: P0083737
Facility ID: 0145020235
Effective Date: To be entered upon final issuance

- a. Emissions testing shall be conducted within 12 months after permit issuance and at least once every 5 years thereafter.
- b. The test(s) shall be conducted in accordance with the test methods and procedures specified in 40 CFR 63.2354.
- c. The test(s) shall be conducted while emissions units P001, P004, P005, P006, P007, P008, P009, P010, P011, P013, P016 and P017 are operating at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Central District Office.
- d. 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, Central 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, Central District Office's refusal to accept the results of the emission test(s).
- e. Personnel from the Ohio EPA, Central 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.
- f. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central 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, Central District Office.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart EEEE]

- (2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitation

OC emissions shall not exceed 1.8 pounds per hour.

Applicable Compliance Method

Compliance may be determined based on records maintained in accordance with d)(1) above.

[OAC rule 3745-77-07(C)(1)]

- b. The permittee shall comply with the applicable performance test requirements of 40 CFR Part 63, Subpart EEEE, including the following sections:



40 CFR 63.2358(b)(1) and (c)(2)	initial compliance with the emission limitations and work practice standards specified in b)(2)b. through b)(2)f. shall be demonstrated within 180 days after February 5, 2007
40 CFR 63.2370(a) and 63.2382(b)	requirements to demonstrate initial compliance with emission limits and work practice standards
40 CFR 63.2370(b)	initial compliance with the operating limit requirements specified in c)(1) shall be demonstrated during the initial performance test or design evaluation
40 CFR 63.2362(a)	subsequent performance testing for nonflare control devices
40 CFR 63.2354(a)(1)	use the procedures specified in 40 CFR Part 63, Subpart SS and 40 CFR 63.2354(b) for each performance test
40 CFR 63.2354(a)(3) and 63.2366(a)	follow the requirements in 40 CFR 63.8(e) for each performance evaluation of a continuous emission monitoring system (CEMS)
40 CFR 63.2346(f)	if applicable for noncombustion devices, provide a demonstration that total organic compounds is an appropriate surrogate for organic HAP
40 CFR 63.2354(c)	method for determining the HAP content of organic liquids

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart EEEE]

g) Miscellaneous Requirements

- (1) None.



4. Emissions Unit Group :P001, P004, P006, P007, P008, P009, P013

EU ID	Operations, Property and/or Equipment Description
P001	LUWA #1 Thin-film evaporator
P004	Fractional Distillation Column
P006	Safety-Therm #2 (Solids/sludge distillation unit)
P007	Safety-Therm #3 (Solids/sludge distillation unit)
P008	Safety-Therm #4 (Solids/sludge distillation unit)
P009	LUWA #2 Thin-film evaporator
P013	Drum receiving vat

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
- (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-21-07(M)(1)	The emissions unit shall be equipped with a control system (i.e., capture and control) that reduces OC emissions by an overall control efficiency of at least 85%, by weight. At least 90% of the carbon in the organic material being incinerated shall be oxidized to CO ₂ .
b.	OAC rule 3745-31-05(A)(3) [PTI 01-354 for P001, PTI 01-487 for P004, PTI 01-753 for P006, PTI 01-1007 for P007 and P008, PTI 01-1338 for P009, PTI 01-1932 for P013]	For emissions units P007 and P008, OC emissions from each emissions unit shall not exceed 4.5 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(M)(1). See b)(2)a. below.
c.	40 CFR Part 63, Subpart DD [The affected source subject to the requirements of this subpart consists of the transfer systems, process vents, equipment leaks, and closed-	The emission limitations set forth in this subpart and the emission limitations referred to in this subpart shall apply at all times except during periods of non-operation of the affected source (or specific portion thereof) resulting in



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	vent systems and control device associated with this emissions unit. 40 CFR 63.680(c)]	cessation of the emissions to which this subpart applies. The permittee shall not shut down items of equipment that are required or utilized for compliance with this subpart during times when emissions are being routed to such items of equipment, if the shutdown would contravene requirements of this subpart applicable to such items of equipment. [40 CFR 63.680(g)] See b)(2)b. through b)(2)g. below.
d.	40 CFR Part 63, Subpart A	See b)(2)h. below.

(2) Additional Terms and Conditions

- a. All emissions from the condenser shall be vented to the RFO.
- b. Except for transfer systems exempted under 40 CFR Part 63.683(b)(2), the permittee shall comply with one of the following requirements for each transfer system associated with this emissions unit:
 - i. The permittee shall control air emissions from the transfer system in accordance with the applicable standards specified in 40 CFR 63.689, including the following sections:

40 CFR 63.689(b)	control air emissions from individual drain systems in accordance with 40 CFR Part 63, Subpart RR – National Emission Standards for Individual Drain Systems
40 CFR 63.689(c)	use one of the specified transfer systems to control air emissions for each transfer system that is not an individual drain system
40 CFR 63.689(d)	requirements for transfer systems using covers

- ii. The permittee shall remove or destroy HAP in the off-site material before placing the material in the transfer system by treating the material in accordance with the standards specified in 40 CFR 63.684; or
- iii. The permittee shall determine before placing off-site material in the transfer system that the average VOHAP concentration of the off-site material is less than 500 parts per million by weight (ppmw) at the point-of-delivery. The permittee must perform an initial determination of the



average VOHAP concentration of the off-site material using the procedures specified in 40 CFR 63.694(b). This initial determination must be performed either before the first time any portion of the off-site material stream is placed in the transfer system or by the compliance date, whichever date is later. Thereafter, the permittee must review and update, as necessary, this determination at least once every calendar year following the date of the initial determination for the off-site material stream.

[40 CFR 63.683(b)]

- c. Except for process vents exempted under 40 CFR Part 63.683(c)(2), the permittee shall comply with one of the following requirements for each process vent associated with this emissions unit:
- i. The permittee shall route the vent stream from each affected process vent through a closed-vent system to a control device that meets the standards specified in 40 CFR 63.693. For the purpose of complying with this paragraph, a primary condenser is not a control device; however, a second condenser or other organic recovery device that is operated downstream of the primary condenser is considered a control device.[40 CFR 63.690(b)]; or
 - ii. The permittee shall determine before placing off-site material in the process equipment associated with the process vent that the average VOHAP concentration of the off-site material is less than 500 ppmw at the point-of-delivery. The permittee must perform an initial determination of the average VOHAP concentration of the off-site material using the procedures specified in 40 CFR 63.694(b) before any portion of the off-site material stream is placed in the unit. Thereafter, the permittee must review and update, as necessary, this determination at least once every calendar year following the date of the initial determination for the off-site material stream.

[40 CFR 63.683(c)]

- d. The equipment components associated with this emissions unit that meet all of the following conditions are considered part of the affected source for equipment leaks:
- i. The equipment component is a pump, compressor, agitator, pressure relief device, sampling connection system, open-ended valve or line, valve, connector, or instrumentation system;
 - ii. The equipment component contains or contacts off-site material having a total HAP concentration equal to or greater than 10 percent by weight; and



- iii. The equipment component is intended to operate for 300 hours or more during a calendar year in off-site material service, as defined in 40 CFR 63.681.

[40 CFR 63.680(c)(3)]

- e. The permittee must control equipment leaks from each equipment component that is part of the affected source by implementing leak detection and control measures in accordance with the standards specified in 40 CFR 63.691, including the following sections:

40 CFR 63.691(b)	use one of the specified options for controlling the HAP emitted from equipment leaks
40 CFR 63.691(c)	requirements for pressure relief devices

[40 CFR 63.683(d)]

- f. For each closed-vent system and control device (i.e., the RFO) used to comply with 40 CFR Part 63, Subpart DD, the permittee shall meet the following requirements:

- i. The permittee must use a closed-vent system that meets the requirements specified in 40 CFR 63.693(c).
- ii. The permittee must use a control device that meets the requirements specified in 40 CFR 63.693(f), including one of the following requirements:
 - (a) Destroy the total organic compounds, less methane and ethane, contained in the vent stream entering the RFO by at least 95%, on a weight-basis, or to an outlet concentration of less than or equal to 20 ppmv on a dry basis corrected to 3% oxygen; or
 - (b) Destroy the HAP listed in Table 1 to 40 CFR Part 63, Subpart DD contained in the vent stream entering the RFO by at least 95%, on a weight-basis, or to an outlet concentration of less than or equal to 20 ppmv on a dry basis corrected to 3% oxygen; or
 - (c) Maintain the condition in the RFO combustion chamber at a residence time of 0.5 seconds or longer and at a temperature of 760°C or higher.

[40 CFR 63.693(b)]

- g. At all times, the permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be



based on information available to the Ohio EPA, which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.683(e)]

- h. Table 2 to Subpart DD of 40 CFR Part 63 - "Applicability of Paragraphs in Subpart A of This Part 63 - General Provisions to Subpart DD" identifies which parts of the General Provisions in 40 CFR Part 63.1-16 apply.
- c) Operational Restrictions
 - (1) None.
 - d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall comply with the applicable monitoring and/or recordkeeping requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.695(a)	install, calibrate, maintain and operate all monitoring system components according to 40 CFR 63.8, 63.693(f)(3), 63.695(a)(5) and perform the inspection and monitoring procedures specified in 63.695(a)(1) through (4)
40 CFR 63.695(a)(5)(i)	Except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee must operate the continuous monitoring system at all times the affected source is operating. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The permittee is required to complete monitoring system repairs in response to monitoring system malfunctions and to return the monitoring system to operation as expeditiously as practicable.
40 CFR 63.695(a)(5)(ii)	The permittee may not use data recorded during monitoring system malfunctions, repairs associated with monitoring system malfunctions, or required monitoring system quality assurance or control activities in calculations used to report emissions or operating levels. The permittee must use all the data collected during all other required data collection periods in assessing the operation of the control device and associated control system. The permittee must report any periods for which the monitoring system failed to collect required data.
40 CFR 63.696(h)	record the specified malfunction information when an affected unit fails to meet an applicable standard
40 CFR 63.695(a)(3) and 63.695(d)	Inspection, repair, and recordkeeping requirements for transfer systems equipped with a cover



40 CFR 63.696(i)	record the specified information for pressure relief devices in off-site material service
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]	

- (2) For each closed-vent system used to comply with 40 CFR Part 63, Subpart DD, the permittee shall comply with the applicable monitoring and/or recordkeeping requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.693(b)(4)	inspect and monitor each closed-vent system in accordance with one of the specified options
40 CFR 63.695(a)(2) and 63.695(c)(1)	inspection and monitoring requirements for each closed-vent system that is designed to operate with no detectable organic emissions
40 CFR 63.695(a)(2) and 63.695(c)(2)	inspection and monitoring requirements for each closed-vent system that is designed to operate with at a pressure below atmospheric pressure
40 CFR 63.695(a)(2) and 63.695(c)(3)	requirements for repairing all detected defects and maintaining records of the defect repair
40 CFR 63.693(c)(2)(i)	if a flow indicator is used on a bypass line, the permittee shall maintain records of the specified information
40 CFR 63.696(j)(2)	Recordkeeping requirements for each release to the atmosphere for each closed vent system that includes bypass devices that could divert a stream away from the control device and into the atmosphere, and each open-ended valve or line in an emergency shutdown system which is designed to open automatically in the event of a process upset
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]	

- (3) For each control device (i.e., the RFO) used to comply with 40 CFR Part 63, Subpart DD, the permittee shall comply with the applicable monitoring and/or recordkeeping requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.693(b)(5), 63.693(f)(3) and 63.695(e)	use a continuous parameter monitoring system to measure and record the daily average temperature of the exhaust gases from the control device. The monitoring system must be installed, calibrated, operated, and maintained in accordance with the manufacturer's specifications or other written procedures that provide reasonable assurance that the monitoring equipment is operating properly. The accuracy of the temperature monitoring device must be ± 1 percent of the temperature being measured, expressed in degrees Celsius of ± 0.5 °C, whichever is greater. The continuous parameter monitoring system must measure either an instantaneous value at least once every 15 minutes or an average value for intervals of 15 minutes or less and continuously record either: Each measured data value; or
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	<p>Each block average value for each 1-hour period 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.</p>
	<p>Using the data recorded by the monitoring system, the permittee must calculate the daily average temperature for each operating day. If operation of the control device is continuous, the operating day is a 24-hour period. If control device operation is not continuous, the operating day is the total number of hours of control device operation per 24-hour period. Valid data points must be available for 75 percent of the operating hours in an operating day to compute the daily average.</p>
	<p>the permittee must establish a minimum operating temperature to define the range of conditions at which the control device must be operated to continuously achieve the applicable performance requirements specified in 40 CFR 63.693(f). the minimum operating temperature must be established based on values measured during the performance test and supplemented, as necessary, by the control device design specifications, manufacturer recommendations, or other applicable information.</p>
<p>40 CFR 63.693(b)(6) and 63.696(b)</p>	<p>maintain records in accordance with 40 CFR 63.10</p>
<p>40 CFR 63.693(b)(6) and 63.696(g)</p>	<p>semiannual records of planned routine maintenance operations that would require the control device not to meet the requirements of 40 CFR 63.693(f)</p>

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

- (4) A deviation for the control device (i.e., RFO) is determined to have occurred when the monitoring data or lack of monitoring data result in any one of the following criteria being met.
- a. A deviation occurs when the daily average value of a monitored operating parameter is less than the established minimum operating parameter limit.
 - b. A deviation occurs when the period of control device operation is 4 hours or greater in an operating day and the monitoring data are insufficient to constitute a valid hour of data for at least 75 percent of the operating hours. Monitoring data are insufficient to constitute a valid hour of data if measured values are unavailable for any of the 15-minute periods within the hour.
 - c. A deviation occurs when the period of control device operation is less than 4 hours in an operating day and more than 1 of the hours during the period does not constitute a valid hour of data due to insufficient monitoring data. Monitoring data are insufficient to constitute a valid hour of data if measured values are unavailable for any of the 15-minute periods within the hour.



For each deviation, except when the deviation occurs during periods of non-operation of the unit or the process that is vented to the control device (resulting in cessation of HAP emissions to which the monitoring applies), the permittee shall be deemed to have failed to have applied control in a manner that achieves the required operating parameter limits. Failure to achieve the required operating parameter limits is a violation of this standard.

[OAC rule 3745-77-07(C)(1), 40 CFR 63.683(f)(3) and 40 CFR 63.695(e)(4) and (5)]

- (5) In addition to the cases listed in d)(4) above, a deviation has occurred during any of the following:
 - a. Any instance when the permittee fails to meet any requirement or obligation established by 40 CFR Part 63, Subpart DD, including, but not limited to, any emission limit, operating limit or work practice standard.
 - b. When a performance test indicates that emissions of a pollutant in Table 1 to 40 CFR Part 63, Subpart DD are exceeding the emission standard for the pollutant specified in Table 1 to 40 CFR Part 63, Subpart DD.
 - c. When an affected source discharges directly into the atmosphere from a pressure relief device, as defined in 40 CFR 63.681.
 - d. When an affected source discharges directly into the atmosphere from a bypass, as defined in 40 CFR 63.681.
 - e. Any instance in which the permittee fails to meet any term or condition relating to compliance with 40 CFR Part 63, Subpart DD.
 - f. Any failure to collect required data, except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments).

[OAC rule 3745-77-07(C)(1) and 40 CFR 63.683(f)]

e) Reporting Requirements

- (1) The permittee shall comply with the applicable notification and reporting requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.697(a)(1)	Submit notifications in accordance with the applicable requirements specified in 40 CFR 63.9 and Table 2 to 40 CFR Part 63, Subpart DD, including the specified pressure relief device information.
40 CFR 63.697(a)(2)	Submit reports in accordance with the applicable requirements specified in 40 CFR 63.10 and Table 2 to 40 CFR Part 63, Subpart DD.
40 CFR 63.693(b)(7) ,	Requirements for the submittal of performance test notifications



40 CFR 63.697(a)(3) and 63.697(b)(1) and (2)	and reports for the control device (i.e., the RFO)
40 CFR 63.693(b)(7) and 40 CFR 63.697(b)(3)	If a source fails to meet an applicable standard, report such events in the Periodic Report (in accordance with the quarterly and semiannual deviation reporting requirements of the Standard Terms and Conditions of this permit). Report the number of failures to meet an applicable standard. For each instance, report the date, time and duration of each failure. For each failure the report must include a list of the affected sources or equipment, an estimate of the volume of each regulated pollutant emitted over any emission limit, and a description of the method used to estimate the emissions.
40 CFR 63.693(b)(7) and 40 CFR 63.697(b)(4)	A summary report specified in §63.10(e)(3) shall be submitted on a semiannual basis (i.e., once every 6-month period). The summary report must include a description of all deviations as specified in d)(4) and d)(5) above that have occurred during the 6-month reporting period. For each deviation caused when the daily average value of a monitored operating parameter is less than the minimum operating parameter limit, the report must include the daily average values of the monitored parameter, the applicable operating parameter limit, and the date and duration of the period that the deviation occurred. For each deviation caused by lack of monitoring data, the report must include the date and duration of period when the monitoring data were not collected and the reason why the data were not collected.
40 CFR 63.693(b)(7) and 40 CFR 63.697(b)(5)	For pressure relief devices in off-site material service subject to 40 CFR 63.691(c), Periodic Reports (submitted semiannually) must include the specified information
40 CFR 63.693(b)(7) and 40 CFR 63.697(b)(6)	<p>Submit a bypass deviation report including the specified information when any of the following conditions are met:</p> <p>Any closed vent system that includes bypass devices that could divert a vent a stream away from the control device and into the atmosphere, as specified in 40 CFR 63.693(c)(2), has released directly to the atmosphere.</p> <p>Any open-ended valve or line in an emergency shutdown system which is designed to open automatically in the event of a process upset, as specified in 40 CFR 63.167(d) or 40 CFR 61.242-6(d), has released directly to the atmosphere.</p>

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

f) Testing Requirements

- (1) The permittee shall conduct emissions testing to demonstrate compliance with the requirements of OAC rule 3745-21-07(M)(1) and 40 CFR 63.693(f)(1) in accordance with the following requirements:



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Clean Harbors Recycling Services of Ohio L.L.C.
Permit Number: P0083737
Facility ID: 0145020235
Effective Date: To be entered upon final issuance

- a. Emissions testing shall be conducted within 12 months after permit issuance and at least once every 5 years thereafter.
- b. The test(s) shall be conducted in accordance with the test methods and procedures specified in paragraphs (A) through (C) of OAC rule 3745-21-10 and 40 CFR 63.694(l).
- c. The test(s) shall be conducted while emissions units P001, P004, P005, P006, P007, P008, P009, P010, P011, P013, P016 and P017 are operating at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Central District Office.
- d. 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, Central 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, Central District Office's refusal to accept the results of the emission test(s).
- e. Personnel from the Ohio EPA, Central 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.
- f. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central 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, Central District Office.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

- (2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitation

OC emissions shall be reduced by an overall control efficiency of at least 85%, by weight. At least 90% of the carbon in the organic material being incinerated shall be oxidized to CO₂.

Applicable Compliance Method

The overall control efficiency (in percent) of any control equipment shall be the vapor capture efficiency multiplied by the vapor control efficiency and divided by 100.



If required, compliance shall be demonstrated through emissions testing conducted in accordance with the test methods and procedures specified in paragraphs (A) through (C) of OAC rule 3745-21-10.

[OAC rule 3745-77-07(C)(1)]

b. Emissions Limitations

For emissions units P007 and P008, OC emissions from each emissions unit shall not exceed 4.5 tons per year.

Applicable Compliance Method

The calculated maximum annual potential to emit from the condenser associated with each emissions unit is 11.0 tons of OC [i.e., (2.5 lb OC/hr)(8,760 hr/yr) / (2,000 lb/ton)]. Therefore, compliance with the annual OC limitation shall be assumed provided the permittee complies with the 85% by weight overall control efficiency requirement.

[OAC rule 3745-77-07(C)(1)]

c. The permittee shall comply with the applicable performance test requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.693(f)(2) and 63.694	The permittee must demonstrate that the vapor incinerator achieves the performance requirements in 40 CFR 63.693(f)(1) by conducting either a performance test or design analysis.
40 CFR 63.694	test methods and procedures

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

g) Miscellaneous Requirements

(1) None.



5. P005, Safety-Therm #1

Operations, Property and/or Equipment Description:

Safety-Therm #1 (Solids/sludge distillation unit)

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-21-07(M)(1)	The emissions unit shall be equipped with a control system (i.e., capture and control) that reduces OC emissions by an overall control efficiency of at least 85%, by weight. At least 90% of the carbon in the organic material being incinerated shall be oxidized to CO ₂ .
b.	OAC rule 3745-31-05(A)(3) [PTI 01-08237]	Organic compound emissions shall not exceed 1.51 pounds per hour and 6.6 tons per year. Hydrogen chloride emissions shall not exceed 0.44 pound per hour and 1.9 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(M)(1) and 40 CFR Part 63, Subpart DD. See b)(2)a. and c)(1) below.
c.	40 CFR Part 63, Subpart DD [The affected source subject to the requirements of this subpart consists of the transfer systems, process vents, equipment leaks, and closed-vent systems and control device associated with this emissions unit.]	The emission limitations set forth in this subpart and the emission limitations referred to in this subpart shall apply at all times except during periods of non-operation of the affected source (or specific portion thereof) resulting in cessation of the emissions to which this subpart applies.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	40 CFR 63.680(c)]	<p>The permittee shall not shut down items of equipment that are required or utilized for compliance with this subpart during times when emissions are being routed to such items of equipment, if the shutdown would contravene requirements of this subpart applicable to such items of equipment.</p> <p>[40 CFR 63.680(g)]</p> <p>See b)(2)b. through b)(2)g. below.</p>
d.	40 CFR Part 63, Subpart A	See b)(2)h. below.

(2) Additional Terms and Conditions

- a. All emissions from the condenser shall be vented to the RFO and wet scrubber. In accordance with the following terms and conditions, the RFO shall be used to comply with the requirements of 40 CFR Part 63, Subpart DD.
- b. Except for transfer systems exempted under 40 CFR Part 63.683(b)(2), the permittee shall comply with one of the following requirements for each transfer system associated with this emissions unit:
 - i. The permittee shall control air emissions from the transfer system in accordance with the applicable standards specified in 40 CFR 63.689, including the following sections:

40 CFR 63.689(b)	control air emissions from individual drain systems in accordance with 40 CFR Part 63, Subpart RR – National Emission Standards for Individual Drain Systems
40 CFR 63.689(c)	use one of the specified transfer systems to control air emissions for each transfer system that is not an individual drain system
40 CFR 63.689(d)	requirements for transfer systems using covers

- ii. The permittee shall remove or destroy HAP in the off-site material before placing the material in the transfer system by treating the material in accordance with the standards specified in 40 CFR 63.684; or
- iii. The permittee shall determine before placing off-site material in the transfer system that the average VOHAP concentration of the off-site material is less than 500 parts per million by weight (ppmw) at the point-of-delivery. The permittee must perform an initial determination of the



average VOHAP concentration of the off-site material using the procedures specified in 40 CFR 63.694(b). This initial determination must be performed either before the first time any portion of the off-site material stream is placed in the transfer system or by the compliance date, whichever date is later. Thereafter, the permittee must review and update, as necessary, this determination at least once every calendar year following the date of the initial determination for the off-site material stream.

[40 CFR 63.683(b)]

- c. Except for process vents exempted under 40 CFR Part 63.683(c)(2), the permittee shall comply with one of the following requirements for each process vent associated with this emissions unit:
- i. The permittee shall route the vent stream from each affected process vent through a closed-vent system to a control device that meets the standards specified in 40 CFR 63.693. For the purpose of complying with this paragraph, a primary condenser is not a control device; however, a second condenser or other organic recovery device that is operated downstream of the primary condenser is considered a control device.[40 CFR 63.690(b)]; or
 - ii. The permittee shall determine before placing off-site material in the process equipment associated with the process vent that the average VOHAP concentration of the off-site material is less than 500 ppmw at the point-of-delivery. The permittee must perform an initial determination of the average VOHAP concentration of the off-site material using the procedures specified in 40 CFR 63.694(b) before any portion of the off-site material stream is placed in the unit. Thereafter, the permittee must review and update, as necessary, this determination at least once every calendar year following the date of the initial determination for the off-site material stream.

[40 CFR 63.683(c)]

- d. The equipment components associated with this emissions unit that meet all of the following conditions are considered part of the affected source for equipment leaks:
- i. The equipment component is a pump, compressor, agitator, pressure relief device, sampling connection system, open-ended valve or line, valve, connector, or instrumentation system;
 - ii. The equipment component contains or contacts off-site material having a total HAP concentration equal to or greater than 10 percent by weight; and



- iii. The equipment component is intended to operate for 300 hours or more during a calendar year in off-site material service, as defined in 40 CFR 63.681.

[40 CFR 63.680(c)(3)]

- e. The permittee must control equipment leaks from each equipment component that is part of the affected source by implementing leak detection and control measures in accordance with the standards specified in 40 CFR 63.691, including the following sections:

40 CFR 63.691(b)	use one of the specified options for controlling the HAP emitted from equipment leaks
40 CFR 63.691(c)	requirements for pressure relief devices

[40 CFR 63.683(d)]

- f. For each closed-vent system and control device (i.e., the RFO) used to comply with 40 CFR Part 63, Subpart DD, the permittee shall meet the following requirements:

- i. The permittee must use a closed-vent system that meets the requirements specified in 40 CFR 63.693(c).
- ii. The permittee must use a control device that meets the requirements specified in 40 CFR 63.693(f), including one of the following requirements:
 - (a) Destroy the total organic compounds, less methane and ethane, contained in the vent stream entering the RFO by at least 95%, on a weight-basis, or to an outlet concentration of less than or equal to 20 ppmv on a dry basis corrected to 3% oxygen; or
 - (b) Destroy the HAP listed in Table 1 to 40 CFR Part 63, Subpart DD contained in the vent stream entering the RFO by at least 95%, on a weight-basis, or to an outlet concentration of less than or equal to 20 ppmv on a dry basis corrected to 3% oxygen; or
 - (c) Maintain the condition in the RFO combustion chamber at a residence time of 0.5 seconds or longer and at a temperature of 760°C or higher.

[40 CFR 63.693(b)]

- g. At all times, the permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be



based on information available to the Ohio EPA, which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.683(e)]

h. Table 2 to Subpart DD of 40 CFR Part 63 - "Applicability of Paragraphs in Subpart A of This Part 63 - General Provisions to Subpart DD" identifies which parts of the General Provisions in 40 CFR Part 63.1-16 apply.

c) Operational Restrictions

(1) The permittee shall only burn natural gas in the RFO and operate this control device with a low-NOx burner.

[PTI 01-08237, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping Requirements

(1) The pressure drop across the scrubber shall be continuously maintained at a range of 1 to 4 inches of water at all times while the emissions unit is in operation.

[PTI 01-08237, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

(2) The scrubber water flow rate shall be continuously maintained at a value greater than 300 gallons per minute at all times while the emissions unit is in operation.

[PTI 01-08237, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

(3) The pH of the scrubber liquor shall be maintained within the range of 6.5 to 10.00.

[PTI 01-08237, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

(4) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop across the scrubber (in inches of water), the scrubber liquid flow rate (in gallons per minute), and the scrubber liquid pH during operation of this emissions unit, including periods of startup and shutdown. The permittee shall record the pressure drop across the scrubber and the scrubber liquid's pH and flow rate on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

Whenever the monitored value for any parameter deviates from the range(s) or minimum limit(s) established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;



- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the control equipment parameters within the acceptable range(s), or at or above the minimum limit(s) specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date the corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop, flow rate, and pH readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

These range(s) and/or limit(s) for the pressure drop, liquid flow rate, and pH are effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the Ohio EPA, Central District Office. The permittee may request revisions to the permitted range or limit for the pressure drop, liquid flow rate, or pH based upon information obtained during future performance tests that demonstrate compliance with the allowable HCl emission rate for this/these emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

[PTI 01-08237, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

- (5) The permittee shall collect and record the following information each day the emissions unit(s) is/are in operation:
 - a. a log or record of the operating time for the capture (collection) system, wet scrubber, wet scrubber parametric monitoring equipment, and the associated emissions unit(s).

[PTI 01-08237, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]



- (6) The permittee shall comply with the applicable monitoring and/or recordkeeping requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.695(a)	install, calibrate, maintain and operate all monitoring system components according to 40 CFR 63.8, 63.693(f)(3), 63.695(a)(5) and perform the inspection and monitoring procedures specified in 63.695(a)(1) through (4)
40 CFR 63.695(a)(5)(i)	Except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee must operate the continuous monitoring system at all times the affected source is operating. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The permittee is required to complete monitoring system repairs in response to monitoring system malfunctions and to return the monitoring system to operation as expeditiously as practicable.
40 CFR 63.695(a)(5)(ii)	The permittee may not use data recorded during monitoring system malfunctions, repairs associated with monitoring system malfunctions, or required monitoring system quality assurance or control activities in calculations used to report emissions or operating levels. The permittee must use all the data collected during all other required data collection periods in assessing the operation of the control device and associated control system. The permittee must report any periods for which the monitoring system failed to collect required data.
40 CFR 63.696(h)	record the specified malfunction information when an affected unit fails to meet an applicable standard
40 CFR 63.695(a)(3) and 63.695(d)	Inspection, repair, and recordkeeping requirements for transfer systems equipped with a cover
40 CFR 63.696(i)	record the specified information for pressure relief devices in off-site material service

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

- (7) For each closed-vent system used to comply with 40 CFR Part 63, Subpart DD, the permittee shall comply with the applicable monitoring and/or recordkeeping requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.693(b)(4)	inspect and monitor each closed-vent system in accordance with one of the specified options
40 CFR 63.695(a)(2) and 63.695(c)(1)	inspection and monitoring requirements for each closed-vent system that is designed to operate with no detectable organic emissions



40 CFR 63.695(a)(2) and 63.695(c)(2)	inspection and monitoring requirements for each closed-vent system that is designed to operate with at a pressure below atmospheric pressure
40 CFR 63.695(a)(2) and 63.695(c)(3)	requirements for repairing all detected defects and maintaining records of the defect repair
40 CFR 63.693(c)(2)(i)	if a flow indicator is used on a bypass line, the permittee shall maintain records of the specified information
40 CFR 63.696(j)(2)	Recordkeeping requirements for each release to the atmosphere for each closed vent system that includes bypass devices that could divert a stream away from the control device and into the atmosphere, and each open-ended valve or line in an emergency shutdown system which is designed to open automatically in the event of a process upset

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

- (8) For each control device (i.e., the RFO) used to comply with 40 CFR Part 63, Subpart DD, the permittee shall comply with the applicable monitoring and/or recordkeeping requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.693(b)(5), 63.693(f)(3) and 63.695(e)	use a continuous parameter monitoring system to measure and record the daily average temperature of the exhaust gases from the control device.
	The monitoring system must be installed, calibrated, operated, and maintained in accordance with the manufacturer's specifications or other written procedures that provide reasonable assurance that the monitoring equipment is operating properly.
	The accuracy of the temperature monitoring device must be ± 1 percent of the temperature being measured, expressed in degrees Celsius of ± 0.5 °C, whichever is greater.
	The continuous parameter monitoring system must measure either an instantaneous value at least once every 15 minutes or an average value for intervals of 15 minutes or less and continuously record either: Each measured data value; or Each block average value for each 1-hour period 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.
	Using the data recorded by the monitoring system, the permittee must calculate the daily average temperature for each operating day. If operation of the control device is continuous, the operating day is a 24-hour period. If control device operation is not continuous, the operating day is the total number of hours of control device operation per 24-hour period. Valid data points must be available for 75 percent of the operating hours in an operating day to compute the daily



	average.
	the permittee must establish a minimum operating temperature to define the range of conditions at which the control device must be operated to continuously achieve the applicable performance requirements specified in 40 CFR 63.693(f). the minimum operating temperature must be established based on values measured during the performance test and supplemented, as necessary, by the control device design specifications, manufacturer recommendations, or other applicable information.
40 CFR 63.693(b)(6) and 63.696(b)	maintain records in accordance with 40 CFR 63.10
40 CFR 63.693(b)(6) and 63.696(g)	semiannual records of planned routine maintenance operations that would require the control device not to meet the requirements of 40 CFR 63.693(f)

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

- (9) A deviation for the control device (i.e., RFO) is determined to have occurred when the monitoring data or lack of monitoring data result in any one of the following criteria being met.
- a. A deviation occurs when the daily average value of a monitored operating parameter is less than the established minimum operating parameter limit.
 - b. A deviation occurs when the period of control device operation is 4 hours or greater in an operating day and the monitoring data are insufficient to constitute a valid hour of data for at least 75 percent of the operating hours. Monitoring data are insufficient to constitute a valid hour of data if measured values are unavailable for any of the 15-minute periods within the hour.
 - c. A deviation occurs when the period of control device operation is less than 4 hours in an operating day and more than 1 of the hours during the period does not constitute a valid hour of data due to insufficient monitoring data. Monitoring data are insufficient to constitute a valid hour of data if measured values are unavailable for any of the 15-minute periods within the hour.

For each deviation, except when the deviation occurs during periods of non-operation of the unit or the process that is vented to the control device (resulting in cessation of HAP emissions to which the monitoring applies), the permittee shall be deemed to have failed to have applied control in a manner that achieves the required operating parameter limits. Failure to achieve the required operating parameter limits is a violation of this standard.

[OAC rule 3745-77-07(C)(1), 40 CFR 63.683(f)(3) and 40 CFR 63.695(e)(4) and (5)]

- (10) In addition to the cases listed in d)(4) above, a deviation has occurred during any of the following:



- a. Any instance when the permittee fails to meet any requirement or obligation established by 40 CFR Part 63, Subpart DD, including, but not limited to, any emission limit, operating limit or work practice standard.
- b. When a performance test indicates that emissions of a pollutant in Table 1 to 40 CFR Part 63, Subpart DD are exceeding the emission standard for the pollutant specified in Table 1 to 40 CFR Part 63, Subpart DD.
- c. When an affected source discharges directly into the atmosphere from a pressure relief device, as defined in 40 CFR 63.681.
- d. When an affected source discharges directly into the atmosphere from a bypass, as defined in 40 CFR 63.681.
- e. Any instance in which the permittee fails to meet any term or condition relating to compliance with 40 CFR Part 63, Subpart DD.
- f. Any failure to collect required data, except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments).

[OAC rule 3745-77-07(C)(1) and 40 CFR 63.683(f)]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. each day when a fuel other than natural gas was burned in the RFO;
 - b. each period of time (start time and date, and end time and date) when the pressure drop across the scrubber, the liquid flow rate, or the liquid pH was/were outside of the appropriate range or exceeded the applicable limit contained in this permit;
 - c. each period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the scrubber;
 - d. each incident of deviation described in "b" or "c" (above) where a prompt investigation was not conducted;
 - e. each incident of deviation described in "b" or "c" where prompt corrective action, that would bring the pressure drop, liquid flow rate, and/or scrubber liquid pH into compliance with the acceptable range, was determined to be necessary and was not taken; and



- f. each incident of deviation described in “b” or “c” where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) The permittee shall comply with the applicable notification and reporting requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.697(a)(1)	Submit notifications in accordance with the applicable requirements specified in 40 CFR 63.9 and Table 2 to 40 CFR Part 63, Subpart DD, including the specified pressure relief device information.
40 CFR 63.697(a)(2)	Submit reports in accordance with the applicable requirements specified in 40 CFR 63.10 and Table 2 to 40 CFR Part 63, Subpart DD.
40 CFR 63.693(b)(7) , 40 CFR 63.697(a)(3) and 63.697(b)(1) and (2)	Requirements for the submittal of performance test notifications and reports for the control device (i.e., the RFO)
40 CFR 63.693(b)(7) and 40 CFR 63.697(b)(3)	If a source fails to meet an applicable standard, report such events in the Periodic Report (in accordance with the quarterly and semiannual deviation reporting requirements of the Standard Terms and Conditions of this permit). Report the number of failures to meet an applicable standard. For each instance, report the date, time and duration of each failure. For each failure the report must include a list of the affected sources or equipment, an estimate of the volume of each regulated pollutant emitted over any emission limit, and a description of the method used to estimate the emissions.
40 CFR 63.693(b)(7) and 40 CFR 63.697(b)(4)	A summary report specified in §63.10(e)(3) shall be submitted on a semiannual basis (i.e., once every 6-month period). The summary report must include a description of all deviations as specified in d)(4) and d)(5) above that have occurred during the 6-month reporting period. For each deviation caused when the daily average value of a monitored operating parameter is less than the minimum operating parameter limit, the report must include the daily average values of the monitored parameter, the applicable operating parameter limit, and the date and duration of the period that the deviation occurred. For each deviation caused by lack of monitoring data, the report must include the date and duration of period when the monitoring data were not collected and the reason why the data were not collected.



40 CFR 63.693(b)(7) and 40 CFR 63.697(b)(5)	For pressure relief devices in off-site material service subject to 40 CFR 63.691(c), Periodic Reports (submitted semiannually) must include the specified information
40 CFR 63.693(b)(7) and 40 CFR 63.697(b)(6)	<p>Submit a bypass deviation report including the specified information when any of the following conditions are met:</p> <p>Any closed vent system that includes bypass devices that could divert a vent a stream away from the control device and into the atmosphere, as specified in 40 CFR 63.693(c)(2), has released directly to the atmosphere.</p> <p>Any open-ended valve or line in an emergency shutdown system which is designed to open automatically in the event of a process upset, as specified in 40 CFR 63.167(d) or 40 CFR 61.242-6(d), has released directly to the atmosphere.</p>

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

f) Testing Requirements

- (1) The permittee shall conduct emissions testing to demonstrate compliance with the requirements of OAC rule 3745-21-07(M)(1) and 40 CFR 63.693(f)(1) in accordance with the following requirements:
 - a. Emissions testing shall be conducted within 12 months after permit issuance and at least once every 5 years thereafter.
 - b. The test(s) shall be conducted in accordance with the test methods and procedures specified in paragraphs (A) through (C) of OAC rule 3745-21-10 and 40 CFR 63.694(l).
 - c. The test(s) shall be conducted while emissions units P001, P004, P005, P006, P007, P008, P009, P010, P011, P013, P016 and P017 are operating at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Central District Office.
 - d. 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, Central 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, Central District Office's refusal to accept the results of the emission test(s).
 - e. Personnel from the Ohio EPA, Central 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.



- f. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central 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, Central District Office.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

- (2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitation

OC emissions shall be reduced by an overall control efficiency of at least 85%, by weight. At least 90% of the carbon in the organic material being incinerated shall be oxidized to CO₂.

Applicable Compliance Method

The overall control efficiency (in percent) of any control equipment shall be the vapor capture efficiency multiplied by the vapor control efficiency and divided by 100.

If required, compliance shall be demonstrated through emissions testing conducted in accordance with the test methods and procedures specified in paragraphs (A) through (C) of OAC rule 3745-21-10.

[OAC rule 3745-77-07(C)(1)]

- b. Emissions Limitations

Organic compound emissions shall not exceed 1.51 pounds per hour and 6.6 tons per year.

Applicable Compliance Method

The calculated maximum hourly potential to emit from the condenser associated with this emissions unit is 2.6 pounds of OC. Therefore, compliance with the hourly OC limitation shall be assumed provided the permittee complies with the 85% by weight overall control efficiency requirement.

The annual OC limitation was established by multiplying the hourly emissions limitation by 8,760 hr/yr and dividing by 2,000 lb/ton. Compliance with this emission limitation may be assumed provided the permittee complies with the hourly OC limitation.



If required, compliance shall be demonstrated through emissions testing conducted in accordance with the test methods and procedures specified in paragraphs (A) through (C) of OAC rule 3745-21-10.

[OAC rule 3745-77-07(C)(1)]

c. Emissions Limitations

Hydrogen chloride emissions shall not exceed 0.44 pound per hour and 1.9 tons per year.

Applicable Compliance Method

Compliance with the hourly limitation was demonstrated in an emission test performed on October 18, 2007. The emission test yielded an average hourly emission rate of 0.087 pounds of hydrogen chloride per hour while emissions units P001 through P011, P013, P016 and J003 were operated at their maximum achievable rate.

Compliance with the annual limit shall be demonstrated by multiplying the pound per hour emissions rate established during the test mentioned above by 8,760 hours of operation per year and dividing by 2,000 pounds per ton.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 26.

[OAC rule 3745-77-07(C)(1)]

d. The permittee shall comply with the applicable performance test requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.693(f)(2) and 63.694	The permittee must demonstrate that the vapor incinerator achieves the performance requirements in 40 CFR 63.693(f)(1) by conducting either a performance test or design analysis.
40 CFR 63.694	test methods and procedures

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

g) Miscellaneous Requirements

- (1) None.



6. P010, Filter Grinder

Operations, Property and/or Equipment Description:

Filter shredder for drycleaning filters

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule. See b)(2)a. below.
b.	OAC rule 3745-17-11(B)(1)	PE shall not exceed 8.56 pounds per hour. See b)(2)a. below.
c.	OAC rule 3745-21-07(M)(1)	The emissions unit shall be equipped with a control system (i.e., capture and control) that reduces OC emissions by an overall control efficiency of at least 85%, by weight. At least 90% of the carbon in the organic material being incinerated shall be oxidized to CO ₂ .
d.	OAC rule 3745-31-05(A)(3) [PTI 01-1932]	The requirements of this rule include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-17-11(B)(1). See b)(2)a. below.

(2) Additional Terms and Conditions

a. To comply with the PE limitations, the permittee shall operate this emissions unit with a wet scrubber in accordance with the following terms and conditions.



- b. All emissions from this emissions unit shall be vented to the RFO and wet scrubber.
- c) Operational Restrictions
 - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The pressure drop across the scrubber shall be continuously maintained at a range of 1 to 4 inches of water at all times while the emissions unit is in operation.
[OAC rule 3745-77-07(A)(3)(a)(ii)]
 - (2) The scrubber water flow rate shall be continuously maintained at a value greater than 300 gallons per minute at all times while the emissions unit is in operation.
[OAC rule 3745-77-07(A)(3)(a)(ii)]
 - (3) The pH of the scrubber liquor shall be maintained within the range of 6.5 to 10.00.
[OAC rule 3745-77-07(A)(3)(a)(ii)]
 - (4) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop across the scrubber (in inches of water), the scrubber liquid flow rate (in gallons per minute), and the scrubber liquid pH during operation of this emissions unit, including periods of startup and shutdown. The permittee shall record the pressure drop across the scrubber and the scrubber liquid's pH and flow rate on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

Whenever the monitored value for any parameter deviates from the range(s) or minimum limit(s) established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the control equipment parameters within the acceptable range(s), or at or above the minimum limit(s) specified in this permit, unless the permittee determines that corrective action is not necessary and



documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date the corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop, flow rate, and pH readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

These range(s) and/or limit(s) for the pressure drop, liquid flow rate, and pH are effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the Ohio EPA, Central District Office. The permittee may request revisions to the permitted range or limit for the pressure drop, liquid flow rate, or pH based upon information obtained during future performance tests that demonstrate compliance with the allowable HCl emission rate for this/these emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (5) The permittee shall collect and record the following information each day the emissions unit(s) is/are in operation:
 - a. a log or record of the operating time for the capture (collection) system, wet scrubber, wet scrubber parametric monitoring equipment, and the associated emissions unit(s).

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (6) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable average combustion temperature within the RFO, for any 3-hour block of time when the emissions unit is operating, shall not be less than the average temperature measured during the most recent performance test that demonstrated the emissions unit(s) was/were in compliance.

[OAC rule 3745-77-07(A)(3)(a)(ii)]



- (7) The permittee shall properly install, operate, and maintain a continuous temperature monitor and recorder that measures and records the combustion temperature within the RFO when the associated with the emissions unit(s) is/are operating, including periods of startup and shutdown. Units shall be in degrees Fahrenheit. The accuracy for each thermocouple, monitor, and recorder shall be guaranteed by the manufacturer to be within $\pm 1\%$ of the temperature being measured or $\pm 5^\circ$ F, whichever is greater. The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and the operating manuals, with any modifications deemed necessary by the permittee. The permittee shall collect and record the following information each day the emissions unit(s) is/are in operation:
- a. all 3-hour blocks of time, when the emissions unit was operating, during which the average combustion temperature within the RFO was less than the average temperature measured during the most recent performance test that demonstrated the emissions unit(s) was/were in compliance; and
 - b. a log (date and total time) of the downtime or bypass of the capture (collection) system and RFO, and/or downtime of the monitoring equipment, when the emissions unit(s) was/were operating.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (8) Whenever the monitored average combustion temperature within the RFO deviates from the range or limit established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:
- a. the date and time the deviation began;
 - b. the magnitude of the deviation at that time;
 - c. the date the investigation was conducted;
 - d. the name(s) of the personnel who conducted the investigation; and
 - e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range/limit specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;



- i. the total period of time (in minutes) during which there was a deviation;
- j. the temperature readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. each period of time (start time and date, and end time and date) when the average combustion temperature within the RFO was outside of the acceptable range;
 - b. each period of time (start time and date, and end time and date) when the pressure drop across the scrubber, the liquid flow rate, or the liquid pH was/were outside of the appropriate range or exceeded the applicable limit contained in this permit;
 - c. each period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the RFO;
 - d. each period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the scrubber;
 - e. each incident of deviation described in "a" through "d" (above) where a prompt investigation was not conducted;
 - f. each incident of deviation described in "a" through "d" where prompt corrective action, that would bring the pressure drop, liquid flow rate, and/or scrubber liquid pH into compliance with the acceptable range, was determined to be necessary and was not taken; and
 - g. each incident of deviation described in "a" through "d" where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(A)(3)(c)]



f) Testing Requirements

- (1) The permittee shall conduct emissions testing to demonstrate compliance with the requirements of OAC rule 3745-21-07(M)(1) in accordance with the following requirements:
 - a. Emissions testing shall be conducted within 12 months after permit issuance and at least once every 5 years thereafter.
 - b. The test(s) shall be conducted in accordance with the test methods and procedures specified in paragraphs (A) through (C) of OAC rule 3745-21-10.
 - c. The test(s) shall be conducted while emissions units P001, P004, P005, P006, P007, P008, P009, P010, P011, P013, P016 and P017 are operating at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Central District Office.
 - d. 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, Central 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, Central District Office's refusal to accept the results of the emission test(s).
 - e. Personnel from the Ohio EPA, Central 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.
 - f. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central 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, Central District Office.

[OAC rule 3745-77-07(C)(1)]

- (2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.



Applicable Compliance Method

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

[OAC rule 3745-17-03(B)(1)(a) and OAC rule 3745-77-07(C)(1)]

b. Emission Limitation

PE shall not exceed 8.56 pounds per hour.

Applicable Compliance Method

Compliance shall be determined by multiplying the maximum process weight rate (i.e., 3 ton/hr) by the emissions factor of 0.1 lb/ton crushed specified in Ohio EPA's RACM* document, Table 2.18-1 for "Aggregate Processing Plants".

*RACM's emission factor assumes that sand and gravel operations are generally processed wet which is representative of the solvent-laden filters pulverized in this operation.

If required, the permittee shall demonstrate compliance with this emissions limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

[OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1)]

c. Emissions Limitation

OC emissions shall be reduced by an overall control efficiency of at least 85%, by weight. At least 90% of the carbon in the organic material being incinerated shall be oxidized to CO₂.

Applicable Compliance Method

The overall control efficiency (in percent) of any control equipment shall be the vapor capture efficiency multiplied by the vapor control efficiency and divided by 100.

If required, compliance shall be demonstrated through emissions testing conducted in accordance with the test methods and procedures specified in paragraphs (A) through (C) of OAC rule 3745-21-10.

[OAC rule 3745-77-07(C)(1)]

g) **Miscellaneous Requirements**

- (1) None.



7. P011, Drying Beds

Operations, Property and/or Equipment Description:

Solvent dewatering beds to remove moisture from chlorinated solvents

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-21-07(M)(1)	The emissions unit shall be equipped with a control system (i.e., capture and control) that reduces OC emissions by an overall control efficiency of at least 85%, by weight. At least 90% of the carbon in the organic material being incinerated shall be oxidized to CO ₂ .
b.	OAC rule 3745-31-05(A)(3) [PTI 01-1932]	The requirements of this rule include compliance with the requirements of OAC rule 3745-21-07(M)(1). See b)(2)a. below.

(2) Additional Terms and Conditions

a. The permittee shall operate the condenser during operation of this emissions unit. The condenser used in P011 is not considered a control device because the condenser functions as part of the closed loop solvent recovery process. In this closed loop system, preheated air is used to evaporate solvent from a saturated resin bed. The organic compounds in the vapor are recovered by the condenser. Several solvent extraction cycles occur. Once the condenser cannot extract any measureable solvent vapor from the heated air, the condenser shuts off and the remaining organic compounds entrained in the heated air are vented to the RFO.

c) Operational Restrictions

(1) None.



d) Monitoring and/or Recordkeeping Requirements

- (1) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable average combustion temperature within the RFO, for any 3-hour block of time when the emissions unit is operating, shall not be less than the average temperature measured during the most recent performance test that demonstrated the emissions unit(s) was/were in compliance.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (2) The permittee shall properly install, operate, and maintain a continuous temperature monitor and recorder that measures and records the combustion temperature within the RFO when the associated with the emissions unit(s) is/are operating, including periods of startup and shutdown. Units shall be in degrees Fahrenheit. The accuracy for each thermocouple, monitor, and recorder shall be guaranteed by the manufacturer to be within $\pm 1\%$ of the temperature being measured or $\pm 5^\circ$ F, whichever is greater. The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and the operating manuals, with any modifications deemed necessary by the permittee. The permittee shall collect and record the following information each day the emissions unit(s) is/are in operation:

- a. all 3-hour blocks of time, when the emissions unit was operating, during which the average combustion temperature within the RFO was less than the average temperature measured during the most recent performance test that demonstrated the emissions unit(s) was/were in compliance; and
- b. a log (date and total time) of the downtime or bypass of the capture (collection) system and RFO, and/or downtime of the monitoring equipment, when the emissions unit(s) was/were operating.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (3) Whenever the monitored average combustion temperature within the RFO deviates from the range or limit established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range/limit specified in this permit, unless the



permittedetermines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the temperature readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. each period of time (start time and date, and end time and date) when the average combustion temperature within the RFO was outside of the acceptable range;
 - b. each period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the RFO;
 - c. each incident of deviation described in “a” or “b” (above) where a prompt investigation was not conducted;
 - d. each incident of deviation described in “a” or “b” where prompt corrective action, that would bring the pressure drop, liquid flow rate, and/or scrubber liquid pH into compliance with the acceptable range, was determined to be necessary and was not taken; and
 - e. each incident of deviation described in “a” or “b” where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.



The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(A)(3)(c)]

f) Testing Requirements

(1) The permittee shall conduct emissions testing to demonstrate compliance with the requirements of OAC rule 3745-21-07(M)(1) in accordance with the following requirements:

- a. Emissions testing shall be conducted within 12 months after permit issuance and at least once every 5 years thereafter.
- b. The test(s) shall be conducted in accordance with the test methods and procedures specified in paragraphs (A) through (C) of OAC rule 3745-21-10.
- c. The test(s) shall be conducted while emissions units P001, P004, P005, P006, P007, P008, P009, P010, P011, P013, P016 and P017 are operating at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Central District Office.
- d. 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, Central 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, Central District Office's refusal to accept the results of the emission test(s).
- e. Personnel from the Ohio EPA, Central 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.
- f. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central 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, Central District Office.

[OAC rule 3745-77-07(C)(1)]

(2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:



a. Emissions Limitation

OC emissions shall be reduced by an overall control efficiency of at least 85%, by weight. At least 90% of the carbon in the organic material being incinerated shall be oxidized to CO₂.

Applicable Compliance Method

The overall control efficiency (in percent) of any control equipment shall be the vapor capture efficiency multiplied by the vapor control efficiency and divided by 100.

If required, compliance shall be demonstrated through emissions testing conducted in accordance with the test methods and procedures specified in paragraphs (A) through (C) of OAC rule 3745-21-10.

[OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

- (1) None.



8. P016, Drum Washing

Operations, Property and/or Equipment Description:

drum washing operation

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) b)(1)d., d)(5) through d)(8) and e)(1)a.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-21-07(M)(1)	The emissions unit shall be equipped with a control system (i.e., capture and control) that reduces OC emissions by an overall control efficiency of at least 85%, by weight. At least 90% of the carbon in the organic material being incinerated shall be oxidized to CO ₂ .
b.	OAC rule 3745-31-05(A)(3) [PTI 01-7320]	The requirements of this rule include compliance with the requirements of OAC rule 3745-21-07(M)(1). See b)(2)a. below.
c.	OAC rule 3745-31-05(D) [Federally enforceable limitations to avoid PSD]	See b)(2)b. and d)(4) below.
d.	OAC rule 3745-114-01 and ORC 3704.03(F)(4)(c) and (F)(4) [Toxic Air Contaminant Statute]	See d)(5) through d)(8) below.
<i>Negative Declarations</i>		
e.	40 CFR Part 63, Subpart DD	See b)(2)c. below.

(2) Additional Terms and Conditions

a. All emissions from this emissions unit shall be vented to the RFO.

b. For purposes of securing federally enforceable terms to avoid federal-based PSD rules, the following emissions limitations and production limitation apply:



- i. Methylene chloride emissions shall not exceed 0.133 pounds per hour and 0.33 tons per rolling, 12-month period;
 - ii. Mineral spirit emissions shall not exceed 1.45 pounds per hour and 3.63 tons per rolling, 12-month period;
 - iii. Perchloroethylene emissions shall not exceed 14.0 pounds per hour and 35.0 tons per rolling, 12-month period; and
 - iv. The emissions unit shall not operate more than 5,000 hours per rolling, 12-month period.
- c. This emissions unit is operated to meet the definition of "RCRA empty" and does not perform any of the waste management or recovery operations specified in 40 CFR 63.680(a)(2)(i) through (a)(2)(vi). Therefore, this emissions unit is not part of the affected source regulated under 40 CFR Part 63, Subpart DD.
- c) Operational Restrictions
- (1) None.
- d) Monitoring and/or Recordkeeping Requirements
- (1) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable average combustion temperature within the RFO, for any 3-hour block of time when the emissions unit is operating, shall not be less than the average temperature measured during the most recent performance test that demonstrated the emissions unit(s) was/were in compliance.

[OAC rule 3745-77-07(A)(3)(a)(ii)]
 - (2) The permittee shall properly install, operate, and maintain a continuous temperature monitor and recorder that measures and records the combustion temperature within the RFO when the associated with the emissions unit(s) is/are operating, including periods of startup and shutdown. Units shall be in degrees Fahrenheit. The accuracy for each thermocouple, monitor, and recorder shall be guaranteed by the manufacturer to be within $\pm 1\%$ of the temperature being measured or $\pm 5^\circ$ F, whichever is greater. The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and the operating manuals, with any modifications deemed necessary by the permittee. The permittee shall collect and record the following information each day the emissions unit(s) is/are in operation:
 - a. all 3-hour blocks of time, when the emissions unit was operating, during which the average combustion temperature within the RFO was less than the average temperature measured during the most recent performance test that demonstrated the emissions unit(s) was/were in compliance; and



- b. a log (date and total time) of the downtime or bypass of the capture (collection) system and RFO, and/or downtime of the monitoring equipment, when the emissions unit(s) was/were operating.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (3) Whenever the monitored average combustion temperature within the RFO deviates from the range or limit established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range/limit specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the temperature readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (4) The permittee shall maintain monthly records of the following information:
 - a. the number of hours operated each month; and



- b. the rolling, 12-month summation of the number of hours operated.

[OAC rule 3745-77-07(C)(1)]

- (5) The permit application for this emissions unit was evaluated based upon the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to this emissions unit for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application, and modeling was performed for each toxic air contaminant emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:

- a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions unit, (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

- i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or
- ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.

- b. The TLV is/was divided by ten to adjust the standard from the working population to the general public (TLV/10).

- c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "X" is 24 hours per day and "Y" is 7 days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$TLV/10 \times 8/X \times 5/Y = 4 TLV/XY = MAGLC$$

- d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or "worst case" toxic contaminant(s):



Toxic Contaminant: Perchloroethylene
TLV (mg/m³): 170
Maximum Hourly Emission Rate (lb/hr): 16.6
Predicted 1-Hour Maximum Ground-Level Concentration (µg/m³): 3,853
MAGLC (µg/m³): 4,048

The permittee, having demonstrated that emissions of perchloroethylene, from emissions unit(s) P016, is estimated to be equal or greater than eighty percent, but less than 100 percent of the maximum acceptable ground level concentration (MAGLC), shall not operate the emissions unit(s) at a rate that would exceed the daily emissions rate, process weight rate, and/or restricted hours of operations, as allowed in this permit; and any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F).

[ORC 3704.03(F)(3)(c) and F(4); OAC rule 3745-114-01; Option A, Engineering Guide #70]

- (6) Prior to making any physical changes to, or changes in the method of operation of, the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:
- a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Toxic Air Contaminant Statute" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a "modification", the permittee shall apply for and obtain a final permit prior to the change. The director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground-level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

[ORC 3704.03(F)(3)(c) and F(4); OAC rule 3745-114-01; Option A, Engineering Guide #70]



- (7) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F):
- a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);
 - b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F);
 - c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit to be in compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and
 - d. the documentation of the initial evaluation of compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit or the materials applied.

[ORC 3704.03(F)(3)(c) and F(4); OAC rule 3745-114-01; Option A, Engineering Guide #70]

- (8) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

[ORC 3704.03(F)(3)(c) and F(4); OAC rule 3745-114-01; Option A, Engineering Guide #70]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- a. any changes made to a parameter or value entered into the dispersion model that was used to maintain compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration;
 - b. each period of time (start time and date, and end time and date) when the average combustion temperature within the RFO was outside of the acceptable range;



- c. each period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the RFO;
- d. each incident of deviation described in “b” or “c” (above) where a prompt investigation was not conducted;
- e. each incident of deviation described in “b” or “c” where prompt corrective action, that would bring the pressure drop, liquid flow rate, and/or scrubber liquid pH into compliance with the acceptable range, was determined to be necessary and was not taken; and
- f. each incident of deviation described in “b” or “c” where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and recordkeeping requirements of this permit.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit of any regulated air pollutant and have been detected by the monitoring, recordkeeping and/or testing requirements in this permit:
 - i. all exceedances of the rolling, 12-month hours of operational limitation;
 - ii. all exceedances of the rolling, 12-month methylene chloride, mineral spirit and perchloroethylene emissions limitations;
 - b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(A)(3)(c)]

f) Testing Requirements

- (1) The permittee shall conduct emissions testing to demonstrate compliance with the requirements of OAC rule 3745-21-07(M)(1) in accordance with the following requirements:



- a. Emissions testing shall be conducted within 12 months after permit issuance and at least once every 5 years thereafter.
- b. The test(s) shall be conducted in accordance with the test methods and procedures specified in paragraphs (A) through (C) of OAC rule 3745-21-10.
- c. The test(s) shall be conducted while emissions units P001, P004, P005, P006, P007, P008, P009, P010, P011, P013, P016 and P017 are operating at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Central District Office.
- d. 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, Central 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, Central District Office's refusal to accept the results of the emission test(s).
- e. Personnel from the Ohio EPA, Central 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.
- f. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central 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, Central District Office.

[OAC rule 3745-77-07(C)(1)]

- (2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitation

OC emissions shall be reduced by an overall control efficiency of at least 85%, by weight. At least 90% of the carbon in the organic material being incinerated shall be oxidized to CO₂.

Applicable Compliance Method

The overall control efficiency (in percent) of any control equipment shall be the vapor capture efficiency multiplied by the vapor control efficiency and divided by 100.



If required, compliance shall be demonstrated through emissions testing conducted in accordance with the test methods and procedures specified in paragraphs (A) through (C) of OAC rule 3745-21-10.

[OAC rule 3745-77-07(C)(1)]

b. Emissions Limitations

Methylene chloride emissions shall not exceed 0.133 pounds per hour and 0.33 tons per rolling, 12-month period.

Mineral spirit emissions shall not exceed 1.45 pounds per hour and 3.63 tons per rolling, 12-month period.

Perchloroethylene emissions shall not exceed 14.0 pounds per hour 35.0 tons per rolling, 12-month period.

Applicable Compliance Method

Compliance with the hourly limitations was demonstrated in an emission test performed on October 18, 2007. The emission test yielded an average hourly emission rate of <0.079 pounds of methylene chloride, 0.74 pounds of organic compounds and <0.15 pounds of trichloroethylene while emissions units P001 through P011, P013, P016 and J003 were operated at their maximum achievable rate. The "<" symbol indicates that compound was not present in quantities above the minimum detection limit of the analytical method for at least one sample fraction.

The rolling, 12-month emissions limitations were established by multiplying the hourly emissions limitations by the maximum annual hours of operation limitation (i.e., 5,000 hr/yr) and dividing by 2,000 lb/ton. Therefore, compliance with the rolling, 12-month emissions limitations may be assumed provided the permittee demonstrates compliance with the maximum annual hours of operation limitation through the recordkeeping requirements specified in d)(4) above.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission testing performed in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25 or 25A, as appropriate.

[OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.



9. P017, P017

Operations, Property and/or Equipment Description:

Solvent drying bed

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) and ORC 3704.03(T) [PTI P0104904]	See b)(2)a. and b)(2)c. through b)(2)i. below.
	OAC rule 3745-31-05(A)(3)(a)(ii) and ORC 3704.03(T)	The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the VOC emissions from this air contaminant source since the controlled potential to emit is less than 10 tons per year. See b)(2)b. below.
b.	40 CFR Part 63, Subpart DD [The affected source subject to the requirements of this subpart consists of the transfer systems, process vents, equipment leaks, and closed-vent systems and control device associated with this emissions unit. 40 CFR 63.680(c)]	The emission limitations set forth in this subpart and the emission limitations referred to in this subpart shall apply at all times except during periods of non-operation of the affected source (or specific portion thereof) resulting in cessation of the emissions to which this subpart applies. The permittee shall not shut down items of equipment that are required or utilized for compliance with this subpart during times when emissions are being routed to such items of equipment, if the shutdown would contravene requirements of this subpart applicable to such items of equipment. [40 CFR 63.680(g)] See b)(2)c. through b)(2)i. below.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	40 CFR Part 63, Subpart A	See b)(2)j. below.

(2) Additional Terms and Conditions

- a. These BAT emission limits apply until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- b. This requirement applies once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.
- c. The permittee shall operate this emissions unit with an RFO to comply with 40 CFR 63, Subpart DD.
- d. Except for transfer systems exempted under 40 CFR Part 63.683(b)(2), the permittee shall comply with one of the following requirements for each transfer system associated with this emissions unit:
 - i. The permittee shall control air emissions from the transfer system in accordance with the applicable standards specified in 40 CFR 63.689, including the following sections:

40 CFR 63.689(b)	control air emissions from individual drain systems in accordance with 40 CFR Part 63, Subpart RR – National Emission Standards for Individual Drain Systems
40 CFR 63.689(c)	use one of the specified transfer systems to control air emissions for each transfer system that is not an individual drain system
40 CFR 63.689(d)	requirements for transfer systems using covers

- ii. The permittee shall remove or destroy HAP in the off-site material before placing the material in the transfer system by treating the material in accordance with the standards specified in 40 CFR 63.684; or
- iii. The permittee shall determine before placing off-site material in the transfer system that the average VOHAP concentration of the off-site material is less than 500 parts per million by weight (ppmw) at the point-of-delivery. The permittee must perform an initial determination of the average VOHAP concentration of the off-site material using the procedures specified in 40 CFR 63.694(b). This initial determination must be performed either before the first time any portion of the off-site material stream is placed in the transfer system or by the compliance date,



whichever date is later. Thereafter, the permittee must review and update, as necessary, this determination at least once every calendar year following the date of the initial determination for the off-site material stream.

[40 CFR 63.683(b)]

- e. Except for process vents exempted under 40 CFR Part 63.683(c)(2), the permittee shall comply with one of the following requirements for each process vent associated with this emissions unit:
 - i. The permittee shall route the vent stream from each affected process vent through a closed-vent system to a control device that meets the standards specified in 40 CFR 63.693. For the purpose of complying with this paragraph, a primary condenser is not a control device; however, a second condenser or other organic recovery device that is operated downstream of the primary condenser is considered a control device.[40 CFR 63.690(b)]; or
 - ii. The permittee shall determine before placing off-site material in the process equipment associated with the process vent that the average VOHAP concentration of the off-site material is less than 500 ppmw at the point-of-delivery. The permittee must perform an initial determination of the average VOHAP concentration of the off-site material using the procedures specified in 40 CFR 63.694(b) before any portion of the off-site material stream is placed in the unit. Thereafter, the permittee must review and update, as necessary, this determination at least once every calendar year following the date of the initial determination for the off-site material stream.

[40 CFR 63.683(c)]

- f. The equipment components associated with this emissions unit that meet all of the following conditions are considered part of the affected source for equipment leaks:
 - i. The equipment component is a pump, compressor, agitator, pressure relief device, sampling connection system, open-ended valve or line, valve, connector, or instrumentation system;
 - ii. The equipment component contains or contacts off-site material having a total HAP concentration equal to or greater than 10 percent by weight; and
 - iii. The equipment component is intended to operate for 300 hours or more during a calendar year in off-site material service, as defined in 40 CFR 63.681.

[40 CFR 63.680(c)(3)]



- g. The permittee must control equipment leaks from each equipment component that is part of the affected source by implementing leak detection and control measures in accordance with the standards specified in 40 CFR 63.691, including the following sections:

40 CFR 63.691(b)	use one of the specified options for controlling the HAP emitted from equipment leaks
40 CFR 63.691(c)	requirements for pressure relief devices

[40 CFR 63.683(d)]

- h. For each closed-vent system and control device (i.e., the RFO) used to comply with 40 CFR Part 63, Subpart DD, the permittee shall meet the following requirements:

- i. The permittee must use a closed-vent system that meets the requirements specified in 40 CFR 63.693(c).
- ii. The permittee must use a control device that meets the requirements specified in 40 CFR 63.693(f), including one of the following requirements:
 - (a) Destroy the total organic compounds, less methane and ethane, contained in the vent stream entering the RFO by at least 95%, on a weight-basis, or to an outlet concentration of less than or equal to 20 ppmv on a dry basis corrected to 3% oxygen; or
 - (b) Destroy the HAP listed in Table 1 to 40 CFR Part 63, Subpart DD contained in the vent stream entering the RFO by at least 95%, on a weight-basis, or to an outlet concentration of less than or equal to 20 ppmv on a dry basis corrected to 3% oxygen; or
 - (c) Maintain the condition in the RFO combustion chamber at a residence time of 0.5 seconds or longer and at a temperature of 760°C or higher.

[40 CFR 63.693(b)]

- i. At all times, the permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the Ohio EPA, which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.683(e)]



j. Table 2 to Subpart DD of 40 CFR Part 63 - "Applicability of Paragraphs in Subpart A of This Part 63 - General Provisions to Subpart DD" identifies which parts of the General Provisions in 40 CFR Part 63.1-16 apply.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall comply with the applicable monitoring and/or recordkeeping requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.695(a)	install, calibrate, maintain and operate all monitoring system components according to 40 CFR 63.8, 63.693(f)(3), 63.695(a)(5) and perform the inspection and monitoring procedures specified in 63.695(a)(1) through (4)
40 CFR 63.695(a)(5)(i)	Except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee must operate the continuous monitoring system at all times the affected source is operating. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The permittee is required to complete monitoring system repairs in response to monitoring system malfunctions and to return the monitoring system to operation as expeditiously as practicable.
40 CFR 63.695(a)(5)(ii)	The permittee may not use data recorded during monitoring system malfunctions, repairs associated with monitoring system malfunctions, or required monitoring system quality assurance or control activities in calculations used to report emissions or operating levels. The permittee must use all the data collected during all other required data collection periods in assessing the operation of the control device and associated control system. The permittee must report any periods for which the monitoring system failed to collect required data.
40 CFR 63.696(h)	record the specified malfunction information when an affected unit fails to meet an applicable standard
40 CFR 63.695(a)(3) and 63.695(d)	Inspection, repair, and recordkeeping requirements for transfer systems equipped with a cover
40 CFR 63.696(i)	record the specified information for pressure relief devices in off-site material service

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]



- (2) For each closed-vent system used to comply with 40 CFR Part 63, Subpart DD, the permittee shall comply with the applicable monitoring and/or recordkeeping requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.693(b)(4)	inspect and monitor each closed-vent system in accordance with one of the specified options
40 CFR 63.695(a)(2) and 63.695(c)(1)	inspection and monitoring requirements for each closed-vent system that is designed to operate with no detectable organic emissions
40 CFR 63.695(a)(2) and 63.695(c)(2)	inspection and monitoring requirements for each closed-vent system that is designed to operate with at a pressure below atmospheric pressure
40 CFR 63.695(a)(2) and 63.695(c)(3)	requirements for repairing all detected defects and maintaining records of the defect repair
40 CFR 63.693(c)(2)(i)	if a flow indicator is used on a bypass line, the permittee shall maintain records of the specified information
40 CFR 63.696(j)(2)	Recordkeeping requirements for each release to the atmosphere for each closed vent system that includes bypass devices that could divert a stream away from the control device and into the atmosphere, and each open-ended valve or line in an emergency shutdown system which is designed to open automatically in the event of a process upset

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

- (3) For each control device (i.e., the RFO) used to comply with 40 CFR Part 63, Subpart DD, the permittee shall comply with the applicable monitoring and/or recordkeeping requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.693(b)(5), 63.693(f)(3) and 63.695(e)	use a continuous parameter monitoring system to measure and record the daily average temperature of the exhaust gases from the control device.
	The monitoring system must be installed, calibrated, operated, and maintained in accordance with the manufacturer's specifications or other written procedures that provide reasonable assurance that the monitoring equipment is operating properly.
	The accuracy of the temperature monitoring device must be ± 1 percent of the temperature being measured, expressed in degrees Celsius of ± 0.5 °C, whichever is greater.
	The continuous parameter monitoring system must measure either an instantaneous value at least once every 15 minutes or an average value for intervals of 15 minutes or less and continuously record either: Each measured data value; or Each block average value for each 1-hour period 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.
	Using the data recorded by the monitoring system, the permittee must calculate the daily average temperature for each operating day. If operation of the control device is continuous, the operating day is a 24-hour period. If control device operation is not continuous, the operating day is the total number of hours of control device operation per 24-hour period. Valid data points must be available for 75 percent of the operating hours in an operating day to compute the daily average.
	the permittee must establish a minimum operating temperature to define the range of conditions at which the control device must be operated to continuously achieve the applicable performance requirements specified in 40 CFR 63.693(f). the minimum operating temperature must be established based on values measured during the performance test and supplemented, as necessary, by the control device design specifications, manufacturer recommendations, or other applicable information.
40 CFR 63.693(b)(6) and 63.696(b)	maintain records in accordance with 40 CFR 63.10
40 CFR 63.693(b)(6) and 63.696(g)	semiannual records of planned routine maintenance operations that would require the control device not to meet the requirements of 40 CFR 63.693(f)

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

- (4) A deviation for the control device (i.e., RFO) is determined to have occurred when the monitoring data or lack of monitoring data result in any one of the following criteria being met.
- a. A deviation occurs when the daily average value of a monitored operating parameter is less than the established minimum operating parameter limit.
 - b. A deviation occurs when the period of control device operation is 4 hours or greater in an operating day and the monitoring data are insufficient to constitute a valid hour of data for at least 75 percent of the operating hours. Monitoring data are insufficient to constitute a valid hour of data if measured values are unavailable for any of the 15-minute periods within the hour.
 - c. A deviation occurs when the period of control device operation is less than 4 hours in an operating day and more than 1 of the hours during the period does not constitute a valid hour of data due to insufficient monitoring data. Monitoring data are insufficient to constitute a valid hour of data if measured values are unavailable for any of the 15-minute periods within the hour.

For each deviation, except when the deviation occurs during periods of non-operation of the unit or the process that is vented to the control device (resulting in cessation of HAP emissions to which the monitoring applies), the permittee shall be deemed to have failed to have applied control in a manner that achieves the required operating parameter



limits. Failure to achieve the required operating parameter limits is a violation of this standard.

[OAC rule 3745-77-07(C)(1), 40 CFR 63.683(f)(3), 40 CFR 63.695(e)(4) and (5)]

- (5) In addition to the cases listed in d)(4) above, a deviation has occurred during any of the following:
 - a. Any instance when the permittee fails to meet any requirement or obligation established by 40 CFR Part 63, Subpart DD, including, but not limited to, any emission limit, operating limit or work practice standard.
 - b. When a performance test indicates that emissions of a pollutant in Table 1 to 40 CFR Part 63, Subpart DD are exceeding the emission standard for the pollutant specified in Table 1 to 40 CFR Part 63, Subpart DD.
 - c. When an affected source discharges directly into the atmosphere from a pressure relief device, as defined in 40 CFR 63.681.
 - d. When an affected source discharges directly into the atmosphere from a bypass, as defined in 40 CFR 63.681.
 - e. Any instance in which the permittee fails to meet any term or condition relating to compliance with 40 CFR Part 63, Subpart DD.
 - f. Any failure to collect required data, except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments).

[OAC rule 3745-77-07(C)(1) and 40 CFR 63.683(f)]

e) Reporting Requirements

- (1) The permittee shall comply with the applicable notification and reporting requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.697(a)(1)	Submit notifications in accordance with the applicable requirements specified in 40 CFR 63.9 and Table 2 to 40 CFR Part 63, Subpart DD, including the specified pressure relief device information.
40 CFR 63.697(a)(2)	Submit reports in accordance with the applicable requirements specified in 40 CFR 63.10 and Table 2 to 40 CFR Part 63, Subpart DD.
40 CFR 63.693(b)(7) , 40 CFR 63.697(a)(3) and 63.697(b)(1) and (2)	Requirements for the submittal of performance test notifications and reports for the control device (i.e., the RFO)
40 CFR 63.693(b)(7)	If a source fails to meet an applicable standard, report such



and 40 CFR 63.697(b)(3)	events in the Periodic Report (in accordance with the quarterly and semiannual deviation reporting requirements of the Standard Terms and Conditions of this permit). Report the number of failures to meet an applicable standard. For each instance, report the date, time and duration of each failure. For each failure the report must include a list of the affected sources or equipment, an estimate of the volume of each regulated pollutant emitted over any emission limit, and a description of the method used to estimate the emissions.
40 CFR 63.693(b)(7) and 40 CFR 63.697(b)(4)	A summary report specified in §63.10(e)(3) shall be submitted on a semiannual basis (i.e., once every 6-month period). The summary report must include a description of all deviations as specified in d)(4) and d)(5) above that have occurred during the 6-month reporting period. For each deviation caused when the daily average value of a monitored operating parameter is less than the minimum operating parameter limit, the report must include the daily average values of the monitored parameter, the applicable operating parameter limit, and the date and duration of the period that the deviation occurred. For each deviation caused by lack of monitoring data, the report must include the date and duration of period when the monitoring data were not collected and the reason why the data were not collected.
40 CFR 63.693(b)(7) and 40 CFR 63.697(b)(5)	For pressure relief devices in off-site material service subject to 40 CFR 63.691(c), Periodic Reports (submitted semiannually) must include the specified information
40 CFR 63.693(b)(7) and 40 CFR 63.697(b)(6)	<p>Submit a bypass deviation report including the specified information when any of the following conditions are met:</p> <p>Any closed vent system that includes bypass devices that could divert a vent a stream away from the control device and into the atmosphere, as specified in 40 CFR 63.693(c)(2), has released directly to the atmosphere.</p> <p>Any open-ended valve or line in an emergency shutdown system which is designed to open automatically in the event of a process upset, as specified in 40 CFR 63.167(d) or 40 CFR 61.242-6(d), has released directly to the atmosphere.</p>

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

f) Testing Requirements

- (1) The permittee shall conduct emissions testing to demonstrate compliance with the requirements of 40 CFR 63.693(f)(1) in accordance with the following requirements:
 - a. Emissions testing shall be conducted within 12 months after permit issuance and at least once every 5 years thereafter.
 - b. The test(s) shall be conducted in accordance with the test methods and procedures specified in 40 CFR 63.694(l).



- c. The test(s) shall be conducted while emissions units P001, P004, P005, P006, P007, P008, P009, P010, P011, P013, P016 and P017 are operating at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Central District Office.
- d. 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, Central 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, Central District Office's refusal to accept the results of the emission test(s).
- e. Personnel from the Ohio EPA, Central 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.
- f. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central 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, Central District Office.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

- (2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

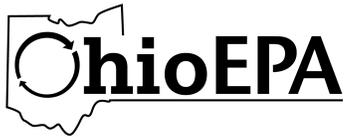
- a. The permittee shall comply with the applicable performance test requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.693(f)(2) and 63.694	The permittee must demonstrate that the vapor incinerator achieves the performance requirements in 40 CFR 63.693(f)(1) by conducting either a performance test or design analysis.
40 CFR 63.694	test methods and procedures

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD].

- g) Miscellaneous Requirements

- (1) None.



10. Emissions Unit Group -Tanks: T112, T183, T202, T203, T204, T208, T209, T210, T213, T214

EU ID	Operations, Property and/or Equipment Description
T112	7,500 Gallon Chlorinated Offsite Material Storage Tank No. 102B
T183	7,500 Gallon Chlorinated Offsite Material Storage Tank No. 83A
T202	7,500 Gallon Chlorinated Offsite Material Storage Tank No. 102A
T203	15,000 Gallon Chlorinated Offsite/Flamm Material Storage Tank No. 103 vented to the RFO
T204	15,000 Gallon Chlorinated Offsite/Flamm Material Storage Tank No. 104 vented to the RFO
T208	15,000 Gallon Chlorinated Offsite/Flamm Material Storage Tank No. 108 vented to the RFO
T209	15,000 Gallon Chlorinated Offsite/Flamm Material Storage-109 vented to the RFO
T210	15,000 Gallon Chlorinated Offsite Material Storage-110
T213	15,000 Gallon Chlorinated Offsite/Flamm Material Storage-113 vented to the RFO
T214	15,000 Gallon Chlorinated Offsite/Flamm Material Storage-114 vented to the RFO

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) [PTI 01-1282 for T112, PTI 01-1324 for T183, T202, T203, T204, T208, T209, T210, T213 and T214]	The emissions unit shall be equipped with submerged fill.
b.	40 CFR Part 63, Subpart DD [The affected source subject to the requirements of this subpart consists of the tanks, transfer systems, equipment leaks, and closed-vent systems and control device associated with this emissions unit. 40 CFR 63.680(c)]	The emission limitations set forth in this subpart and the emission limitations referred to in this subpart shall apply at all times except during periods of non-operation of the affected source (or specific portion thereof) resulting in cessation of the emissions to which this subpart applies. The permittee shall not shut down items of equipment that are required or utilized for compliance with this subpart during times when emissions are being routed to such items of equipment, if the shutdown



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		would contravene requirements of this subpart applicable to such items of equipment. [40 CFR 63.680(g)] See b)(2)a. through b)(2)e. below.
c.	40 CFR Part 63, Subpart A	See b)(2)f. below.

(2) Additional Terms and Conditions

a. Except for tanks and transfer systems (i.e., off-site material management units) exempted under 40 CFR Part 63.683(b)(2), the permittee shall comply with one of the following requirements for each off-site material management unit:

i. The permittee shall control air emissions from the off-site material management unit in accordance with the applicable standards specified in 40 CFR 63.685 for tanks and 40 CFR 63.689 for transfer systems, including the following sections:

40 CFR 63.685(b)	control air emissions from the tank using either Level 1 or Level 2 controls as specified by Tables 3 or 4 of 40 CFR Part 63, Subpart DD, as applicable to the tank. Based on the information provided in the permit application, the minimum level of controls required for this emissions unit is Level 1.
40 CFR 63.685(c)	Level 1 control requirements
40 CFR 63.685(d)	Level 2 control requirements
40 CFR 63.685(e)	requirements for tanks electing to control air emissions using a fixed-roof with an internal floating roof
40 CFR 63.685(f)	requirements for tanks electing to control air emissions using an external floating roof
40 CFR 63.685(g)	requirements for tanks electing to control air emissions by venting to a control device
40 CFR 63.685(h)	requirements for tanks electing to control air emissions by using a pressure tank
40 CFR 63.685(i)	Requirements for tanks electing to control air emissions by using an enclosed combustion control device
40 CFR 63.689(b)	control air emissions from individual drain systems in accordance with 40 CFR Part 63, Subpart RR – National Emission Standards for Individual Drain Systems



40 CFR 63.689(c)	use one of the specified transfer systems to control air emissions for each transfer system that is not an individual drain system
40 CFR 63.689(d)	requirements for transfer systems using covers

- ii. The permittee shall remove or destroy HAP in the off-site material management unit before placing the material in the off-site material management unit by treating the material in accordance with the standards specified in 40 CFR 63.684; or
- iii. The permittee determines before placing off-site material in the off-site material management unit that the average VOHAP concentration of the off-site material is less than 500 parts per million by weight (ppmw) at the point-of-delivery. The permittee must perform an initial determination of the average VOHAP concentration of the off-site material using the procedures specified in 40 CFR 63.694(b) of this subpart. This initial determination must be performed either before the first time any portion of the off-site material stream is placed in the unit or by the compliance date, whichever date is later. Thereafter, the permittee must review and update, as necessary, this determination at least once every calendar year following the date of the initial determination for the off-site material stream.

[40 CFR 63.683(b)]

- b. The equipment components associated with this emissions unit that meet all of the following conditions are considered part of the affected source for equipment leaks:
 - i. The equipment component is a pump, compressor, agitator, pressure relief device, sampling connection system, open-ended valve or line, valve, connector, or instrumentation system;
 - ii. The equipment component contains or contacts off-site material having a total HAP concentration equal to or greater than 10 percent by weight; and
 - iii. The equipment component is intended to operate for 300 hours or more during a calendar year in off-site material service, as defined in 40 CFR 63.681.

[40 CFR 63.680(c)(3)]

- c. The permittee must control equipment leaks from each equipment component that is part of the affected source by implementing leak detection and control measures in accordance with the standards specified in 40 CFR 63.691, including the following sections:



40 CFR 63.691(b)	use one of the specified options for controlling the HAP emitted from equipment leaks
40 CFR 63.691(c)	requirements for pressure relief devices

[40 CFR 63.683(d)]

- d. For each closed-vent system and control device (i.e., the RFO) used to comply with 40 CFR Part 63, Subpart DD, the permittee shall meet the following requirements:
 - i. The permittee must use a closed-vent system that meets the requirements specified in 40 CFR 63.693(c).
 - ii. The permittee must use a control device that meets the requirements specified in 40 CFR 63.693(f), including one of the following requirements:
 - (a) Destroy the total organic compounds, less methane and ethane, contained in the vent stream entering the RFO by at least 95%, on a weight-basis, or to an outlet concentration of less than or equal to 20 ppmv on a dry basis corrected to 3% oxygen; or
 - (b) Destroy the HAP listed in Table 1 to 40 CFR Part 63, Subpart DD contained in the vent stream entering the RFO by at least 95%, on a weight-basis, or to an outlet concentration of less than or equal to 20 ppmv on a dry basis corrected to 3% oxygen; or
 - (c) Maintain the condition in the RFO combustion chamber at a residence time of 0.5 seconds or longer and at a temperature of 760°C or higher.

[40 CFR 63.693(b)]

- e. At all times, the permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the Ohio EPA, which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.683(e)]

- f. Table 2 to Subpart DD of 40 CFR Part 63 - "Applicability of Paragraphs in Subpart A of This Part 63 - General Provisions to Subpart DD" identifies which parts of the General Provisions in 40 CFR Part 63.1-16 apply.



c) Operational Restrictions

- (1) Whenever gases or vapors containing HAP are routed from a tank through a closed-vent system connected to a control device used to comply with the requirements of 40 CFR 63.685(b), the control device must be operating except as provided below.
 - a. The control device may only be bypassed for the purpose of performing planned routine maintenance of the closed-vent system or control device in situations when the routine maintenance cannot be performed during periods that tank emissions are vented to the control device.
 - b. On an annual basis, the total time that the closed-vent system or control device is bypassed to perform routine maintenance shall not exceed 240 hours per each calendar year.

[OAC rule 3745-77-07(A)(1) and 40 CFR 63.693(b)(3)]

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall comply with the applicable monitoring and/or recordkeeping requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.695(a)	install, calibrate, maintain and operate all monitoring system components according to 40 CFR 63.8, 63.693(f)(3), 63.695(a)(5) and perform the inspection and monitoring procedures specified in 63.695(a)(1) through (4)
40 CFR 63.695(a)(5)(i)	Except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee must operate the continuous monitoring system at all times the affected source is operating. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The permittee is required to complete monitoring system repairs in response to monitoring system malfunctions and to return the monitoring system to operation as expeditiously as practicable.
40 CFR 63.695(a)(5)(ii)	The permittee may not use data recorded during monitoring system malfunctions, repairs associated with monitoring system malfunctions, or required monitoring system quality assurance or control activities in calculations used to report emissions or operating levels. The permittee must use all the data collected during all other required data collection periods in assessing the operation of the control device and associated control system. The permittee must report any periods for which the monitoring system failed to collect required data.



40 CFR 63.695(b)	Tank Level 2 fixed roof and floating roof inspection requirements
40 CFR 63.696(d)	recordkeeping requirements for tanks electing to control air emissions by using an internal floating roof or an external floating roof
40 CFR 63.696(e)	recordkeeping requirements for tanks electing to control air emissions by venting to a control device
40 CFR 63.696(f)	recordkeeping requirements for tanks electing to control air emissions by using an enclosed combustion control device
40 CFR 63.696(j)(1)	recordkeeping requirements for each release to the atmosphere for tanks electing to control air emissions by using a pressure tank
40 CFR 63.696(h)	record the specified malfunction information when an affected unit fails to meet an applicable standard
40 CFR 63.695(a)(3) and 63.695(d)	Inspection, repair, and recordkeeping requirements for transfer systems equipped with a cover
40 CFR 63.696(i)	record the specified information for pressure relief devices in off-site material service

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

- (2) For each closed-vent system used to comply with 40 CFR Part 63, Subpart DD, the permittee shall comply with the applicable monitoring and/or recordkeeping requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.693(b)(4)	inspect and monitor each closed-vent system in accordance with one of the specified options
40 CFR 63.695(a)(2) and 63.695(c)(1)	inspection and monitoring requirements for each closed-vent system that is designed to operate with no detectable organic emissions
40 CFR 63.695(a)(2) and 63.695(c)(2)	inspection and monitoring requirements for each closed-vent system that is designed to operate with at a pressure below atmospheric pressure
40 CFR 63.695(a)(2) and 63.695(c)(3)	requirements for repairing all detected defects and maintaining records of the defect repair
40 CFR 63.693(c)(2)(i)	if a flow indicator is used on a bypass line, the permittee shall maintain records of the specified information
40 CFR 63.696(j)(2)	Recordkeeping requirements for each release to the atmosphere for each closed vent system that includes bypass devices that could divert a stream away from the control device and into the atmosphere, and each open-ended valve or line in an emergency shutdown system which is designed to open automatically in the event of a process upset

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

- (3) For each control device (i.e., the RFO) used to comply with 40 CFR Part 63, Subpart DD, the permittee shall comply with the applicable monitoring and/or recordkeeping requirements of 40 CFR Part 63, Subpart DD, including the following sections:



40 CFR 63.693(b)(5), 63.693(f)(3) and 63.695(e)	use a continuous parameter monitoring system to measure and record the daily average temperature of the exhaust gases from the control device.
	The monitoring system must be installed, calibrated, operated, and maintained in accordance with the manufacturer's specifications or other written procedures that provide reasonable assurance that the monitoring equipment is operating properly.
	The accuracy of the temperature monitoring device must be ± 1 percent of the temperature being measured, expressed in degrees Celsius of ± 0.5 °C, whichever is greater.
	The continuous parameter monitoring system must measure either an instantaneous value at least once every 15 minutes or an average value for intervals of 15 minutes or less and continuously record either: Each measured data value; or Each block average value for each 1-hour period 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.
	Using the data recorded by the monitoring system, the permittee must calculate the daily average temperature for each operating day. If operation of the control device is continuous, the operating day is a 24-hour period. If control device operation is not continuous, the operating day is the total number of hours of control device operation per 24-hour period. Valid data points must be available for 75 percent of the operating hours in an operating day to compute the daily average.
	the permittee must establish a minimum operating temperature to define the range of conditions at which the control device must be operated to continuously achieve the applicable performance requirements specified in 40 CFR 63.693(f). the minimum operating temperature must be established based on values measured during the performance test and supplemented, as necessary, by the control device design specifications, manufacturer recommendations, or other applicable information.
40 CFR 63.693(b)(6) and 63.696(b)	maintain records in accordance with 40 CFR 63.10
40 CFR 63.693(b)(6) and 63.696(g)	semiannual records of planned routine maintenance operations that would require the control device not to meet the requirements of 40 CFR 63.693(f)

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]



- (4) A deviation for the control device (i.e., RFO) is determined to have occurred when the monitoring data or lack of monitoring data result in any one of the following criteria being met.
- a. A deviation occurs when the daily average value of a monitored operating parameter is less than the established minimum operating parameter limit.
 - b. A deviation occurs when the period of control device operation is 4 hours or greater in an operating day and the monitoring data are insufficient to constitute a valid hour of data for at least 75 percent of the operating hours. Monitoring data are insufficient to constitute a valid hour of data if measured values are unavailable for any of the 15-minute periods within the hour.
 - c. A deviation occurs when the period of control device operation is less than 4 hours in an operating day and more than 1 of the hours during the period does not constitute a valid hour of data due to insufficient monitoring data. Monitoring data are insufficient to constitute a valid hour of data if measured values are unavailable for any of the 15-minute periods within the hour.

For each deviation, except when the deviation occurs during periods of non-operation of the unit or the process that is vented to the control device (resulting in cessation of HAP emissions to which the monitoring applies), the permittee shall be deemed to have failed to have applied control in a manner that achieves the required operating parameter limits. Failure to achieve the required operating parameter limits is a violation of this standard.

[OAC rule 3745-77-07(C)(1), 40 CFR 63.683(f)(3), 40 CFR 63.695(e)(4) and (5)]

- (5) In addition to the cases listed in d)(4) above, a deviation has occurred during any of the following:
- a. Any instance when the permittee fails to meet any requirement or obligation established by 40 CFR Part 63, Subpart DD, including, but not limited to, any emission limit, operating limit or work practice standard.
 - b. When a performance test indicates that emissions of a pollutant in Table 1 to 40 CFR Part 63, Subpart DD are exceeding the emission standard for the pollutant specified in Table 1 to 40 CFR Part 63, Subpart DD.
 - c. When an affected source discharges directly into the atmosphere from a pressure relief device, as defined in 40 CFR 63.681.
 - d. When an affected source discharges directly into the atmosphere from a bypass, as defined in 40 CFR 63.681.
 - e. Any instance in which the permittee fails to meet any term or condition relating to compliance with 40 CFR Part 63, Subpart DD.



- f. Any failure to collect required data, except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments).

[OAC rule 3745-77-07(C)(1) and 40 CFR 63.683(f)]

e) Reporting Requirements

- (1) The permittee shall comply with the applicable notification and reporting requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.697(a)(1)	Submit notifications in accordance with the applicable requirements specified in 40 CFR 63.9 and Table 2 to 40 CFR Part 63, Subpart DD, including the specified pressure relief device information.
40 CFR 63.697(a)(2)	Submit reports in accordance with the applicable requirements specified in 40 CFR 63.10 and Table 2 to 40 CFR Part 63, Subpart DD.
40 CFR 63.693(b)(7) , 40 CFR 63.697(a)(3) and 63.697(b)(1) and (2)	Requirements for the submittal of performance test notifications and reports for the control device (i.e., the RFO)
40 CFR 63.693(b)(7) and 40 CFR 63.697(b)(3)	If a source fails to meet an applicable standard, report such events in the Periodic Report (in accordance with the quarterly and semiannual deviation reporting requirements of the Standard Terms and Conditions of this permit). Report the number of failures to meet an applicable standard. For each instance, report the date, time and duration of each failure. For each failure the report must include a list of the affected sources or equipment, an estimate of the volume of each regulated pollutant emitted over any emission limit, and a description of the method used to estimate the emissions.
40 CFR 63.693(b)(7) and 40 CFR 63.697(b)(4)	A summary report specified in §63.10(e)(3) shall be submitted on a semiannual basis (i.e., once every 6-month period). The summary report must include a description of all deviations as specified in d)(4) and d)(5) above that have occurred during the 6-month reporting period. For each deviation caused when the daily average value of a monitored operating parameter is less than the minimum operating parameter limit, the report must include the daily average values of the monitored parameter, the applicable operating parameter limit, and the date and duration of the period that the deviation occurred. For each deviation caused by lack of monitoring data, the report must include the date and duration of period when the monitoring data were not collected and the reason why the data were not collected.



40 CFR 63.693(b)(7) and 40 CFR 63.697(b)(5)	For pressure relief devices in off-site material service subject to 40 CFR 63.691(c), Periodic Reports (submitted semiannually) must include the specified information
40 CFR 63.693(b)(7) and 40 CFR 63.697(b)(6)	<p>Submit a pressure tank closure device or bypass deviation report including the specified information when any of the following conditions are met:</p> <p>Any pressure tank closure device, as specified in 40 CFR 63.693(c)(2), has released to the atmosphere.</p> <p>Any closed vent system that includes bypass devices that could divert a vent a stream away from the control device and into the atmosphere, as specified in 40 CFR 63.693(c)(2), has released directly to the atmosphere.</p> <p>Any open-ended valve or line in an emergency shutdown system which is designed to open automatically in the event of a process upset, as specified in 40 CFR 63.167(d) or 40 CFR 61.242-6(d), has released directly to the atmosphere.</p>
40 CFR 63.697(c)	Submit notifications, as specified, of the date and location of each inspection of an internal floating roof or external floating roof used to comply with the Tank Level 2 control requirements

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

f) Testing Requirements

- (1) For tanks electing to control emissions by venting to the RFO in accordance with 40 CFR 63.685(g), the permittee shall conduct emissions testing to demonstrate compliance with the requirements of 40 CFR 63.693(f)(1) in accordance with the following requirements:
 - a. Emissions testing shall be conducted within 12 months after permit issuance and at least once every 5 years thereafter.
 - b. The test(s) shall be conducted in accordance with the test methods and procedures specified in 40 CFR 63.694(l).
 - c. The test(s) shall be conducted while emissions units P001, P004, P005, P006, P007, P008, P009, P010, P011, P013, P016 and P017 are operating at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Central District Office.
 - d. 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, Central 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, Central District Office's refusal to accept the results of the emission test(s).



- e. Personnel from the Ohio EPA, Central 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.
- f. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central 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, Central District Office.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD]

- (2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. The permittee shall comply with the applicable performance test requirements of 40 CFR Part 63, Subpart DD, including the following sections:

40 CFR 63.693(f)(2) and 63.694	The permittee must demonstrate that the vapor incinerator achieves the performance requirements in 40 CFR 63.693(f)(1) by conducting either a performance test or design analysis.
40 CFR 63.694	test methods and procedures

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DD].

- g) Miscellaneous Requirements

- (1) None.



11. Emissions Unit Group -Tanks: T095, T211, T212, T225, T226

EU ID	Operations, Property and/or Equipment Description
T095	15,000 Gallon Product Storage Tank No. 127 vented to the RFO
T211	30,000 Gallon Chlorinated Intermediate Material Storage-111
T212	30,000 Gallon Chlorinated Intermediate Material Storage-112
T225	20,000 Gallon Product Storage-125 vented to the RFO
T226	20,000 Gallon Product Storage-126 vented to the RFO

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) [PTI 01-1100 for T095, PTI 01-1324 for T211, T212, T225 and T226]	For T211, T212, T225 and T226, the emissions unit shall be equipped with submerged fill.
b.	40 CFR Part 63, Subpart EEEE [This emissions unit is an existing storage tank storing organic liquids located at a major source facility. 40 CFR 63.2338]	The permittee shall be in compliance with the emissions limitations, operating limits, and work practice standards in this subpart at all times when the storage tank is in organic liquid distribution operation. [40 CFR 63.2350(a)] See b)(2)a. through b)(2)c. below.
c.	40 CFR Part 63, Subpart A	See b)(2)d. below.

(2) Additional Terms and Conditions

a. Except as provided in b)(2)b. below, the permittee shall comply with one of the following requirements:

i. The permittee shall reduce emissions of total organic HAP (or, upon approval, TOC) by at least 95 weight-percent or, as an option, to an exhaust concentration less than or equal to 20 ppmv, on a dry basis corrected to 3 percent oxygen for combustion devices using supplemental



combustion air, by venting emissions through a closed vent system to any combination of control devices meeting the applicable requirements of 40 CFR Part 63, Subpart SS; or

- ii. The permittee shall comply with the requirements of 40 CFR Part 63, Subpart WW (control level 2); or
- iii. The permittee shall comply with the requirements of 40 CFR 63.984 for routing emissions to a fuel gas system or back to a process; or
- iv. The permittee shall comply with the requirements of 40 CFR 63.2346(a)(4) for vapor balancing emissions to the transport vehicle from which the storage tank is filled.

[40 CFR 63.2346(a) and Table 2 to Subpart EEEE of 40 CFR Part 63 - "Emission Limits"]

- b. For the purpose of avoiding the control requirements specified in 40 CFR Part 63, Subpart EEEE, the permittee shall maintain documentation, including a record of the annual average true vapor pressure of the total Table 1 organic HAP in the stored organic liquid to verify that it is less than 4.0 psia (27.6 kPa). The documentation must be kept up-to-date and must be in a form suitable and readily available for expeditious inspection and review according to 40 CFR 63.10(b)(1), including records stored in electronic form in a separate location.

[40 CFR 63.2343(b)(3) and 63.2390(a)]

- c. For each pump, valve, and sampling connection that operates in organic liquids service for at least 300 hours per year, the permittee must comply with the applicable requirements under 40 CFR Part 63, Subpart TT (control level 1), Subpart UU (control level 2), or Subpart H. Pumps, valves, and sampling connectors that are insulated to provide protection against persistent sub-freezing temperatures are subject to the "difficult to monitor" provisions in the applicable subpart selected by the permittee.

[40 CFR 63.2346(c)]

- d. Table 12 to Subpart EEEE of 40 CFR Part 63 - "Applicability of General Provisions to Subpart EEEE" identifies which parts of the General Provisions in 40 CFR Part 63.1-16 apply.

c) Operational Restrictions

- (1) For each storage tank, the permittee shall comply with the requirements for monitored parameters as specified in 40 CFR Part 63, Subpart SS for storage vessels. Alternatively, the permittee may comply with the operating limits in Table 3 to Subpart EEEE.

[OAC rule 3745-77-07(A)(1) and 40 CFR 63.2346(e)]



d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall comply with the applicable monitoring and/or recordkeeping requirements of 40 CFR Part 63, Subpart EEEE, including the following sections:

40 CFR 63.2350(b)	operate and maintain the affected source according to 40 CFR 63.6(e)(1)(i)
40 CFR 63.2350(c)	develop a written startup, shutdown and malfunction plan according to 40 CFR 63.6(e)(3)
40 CFR 63.2378(b)	applicable requirements during startup, shutdown, malfunction and nonoperation of the affected source
40 CFR 63.2354(a)(2)	use the procedures specified in 40 CFR Part 63, Subpart SS for each design evaluation
40 CFR 63.2346(a)(4) and 63.2390(e)	monitoring and recordkeeping requirements for storage tanks using a vapor balancing system to comply with 40 CFR 63.2346(a)
40 CFR 63.2366(a)	install, operate and maintain a continuous monitoring system on each control device
	comply with applicable requirements in 40 CFR Part 63, Subpart SS for continuous parametric monitoring systems
	comply with the requirements in 40 CFR 63.8 for continuous emissions monitoring systems
40 CFR 63.2374(a)	monitor and collect data according to 40 CFR Part 63, Subpart SS and 40 CFR 63.2374(b) and (c)
40 CFR 63.2378(a)	demonstrate continuous compliance with each applicable emission limitation, operating limit and work practice standard in accordance with the methods specified in 40 CFR Part 63, Subpart SS and Tables 8 through 10 of 40 CFR Part 63, Subpart EEEE.
40 CFR 63.2390(b)	keep all records identified in 40 CFR Part 63, Subpart SS and Tables 8 through 10 and 12 of 40 CFR Part 63, Subpart EEEE
40 CFR 63.2378(c)	limitation on periods of planned routine maintenance of a control device
40 CFR 63.2378(d)	limitation on bypassing the routing of emissions to a fuel gas system or process

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart EEEE]

(2) The records required in d)(1) shall be in a form suitable and readily available for expeditious review, in accordance with 40 CFR 63.10(b)(1).

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



- b. The permittee shall keep each record on site, or they shall be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). The permittee can keep the records off site for the remaining 3 years.

[OAC rule 3745-77-07(C)(1) and 40 CFR 63.2394]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the hourly OC emissions limitation. The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) The permittee shall comply with the applicable notifications and reporting requirements of 40 CFR Part 63, Subpart EEEE, including the following sections:

40 CFR 63.2343(b)(2) and (d)	Whenever a tank becomes subject to control under 40 CFR Subpart EEEE, submit the information specified in 40 CFR 63.2386(c)(1), (2), (3) and, as applicable, in 40 CFR 63.2386(d)(3) and (4) in a subsequent compliance report according to the schedule in 40 CFR 63.2386(b).
40 CFR 63.2382	submit notifications in accordance with 40 CFR Part 63, Subpart SS; Table 12 of 40 CFR Part 63, Subpart EEEE; and 63.2382(b) through (d)
40 CFR 63.2386	submit reports, including semiannual compliance reports, in accordance with 40 CFR Part 63, Subpart SS; Tables 11 and 12 of 40 CFR Part 63, Subpart EEEE; and 63.2386(c) through (e)
40 CFR 63.2366(b)	for nonflare control devices controlling storage tanks, submit a monitoring plan in accordance with the requirements in 40 CFR Part 63, Subpart SS
40 CFR 63.2370(c) and 63.2382(d)	submit a notification of compliance status for an initial performance test, design evaluation, or other compliance demonstration
40 CFR 63.2396	identify other subparts being complied with in the notification of compliance status required by 40 CFR 63.2382(b)

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart EEEE]

f) Testing Requirements

- (1) For tanks electing to comply with the requirements of 40 CFR 63.2346(a) by venting to the RFO, the permittee shall conduct emissions testing in accordance with the following requirements:

- a. Emissions testing shall be conducted within 12 months after permit issuance and at least once every 5 years thereafter.



- b. The test(s) shall be conducted in accordance with the test methods and procedures specified in 40 CFR 63.2354.
- c. The test(s) shall be conducted while emissions units P001, P004, P005, P006, P007, P008, P009, P010, P011, P013, P016 and P017 are operating at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Central District Office.
- d. 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, Central 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, Central District Office's refusal to accept the results of the emission test(s).
- e. Personnel from the Ohio EPA, Central 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.
- f. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central 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, Central District Office.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart EEEE]

(2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. The permittee shall comply with the applicable performance test requirements of 40 CFR Part 63, Subpart EEEE, including the following sections:

40 CFR 63.2358(b) and (c)	initial compliance with the emission limitations and work practice standards specified in b)(2)a.i., b)(2)a.ii. and b)(2)c. shall be demonstrated within 180 days after February 5, 2007
40 CFR 63.2358(b) and (c)	initial compliance with the work practice standards specified in b)(2)a.iii. and b)(2)a.iv. shall be demonstrated within 180 days April 25, 2011
40 CFR 63.2370(a) and 63.2382(b)	requirements to demonstrate initial compliance with emission limits and work practice standards
40 CFR 63.2362(a)	subsequent performance testing for nonflare control devices



40 CFR 63.2354(a)(1)	use the procedures specified in 40 CFR Part 63, Subpart SS and 40 CFR 63.2354(b) for each performance test
40 CFR 63.2354(a)(3) and 63.2366(a)	follow the requirements in 40 CFR 63.8(e) for each performance evaluation of a continuous emission monitoring system (CEMS)
40 CFR 63.2346(f)	if applicable for noncombustion devices, provide a demonstration that total organic compounds is an appropriate surrogate for organic HAP
40 CFR 63.2354(c)	method for determining the HAP content of organic liquids

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart EEEE]

g) Miscellaneous Requirements

- (1) None.