



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

2/29/2016

Mr. Ryan Crowe
 Ormet Production Facility
 125 Putnam Avenue
 Marietta, OH 45750

Certified Mail

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
No	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0656005011
 Permit Number: P0119394
 Permit Type: OAC Chapter 3745-31 Modification
 County: Monroe

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**
- **What should you do if you notice a spill or environmental emergency?**

How to appeal this permit

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
 77 South High Street, 17th Floor
 Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF 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.

What should you do if you notice a spill or environmental emergency?

Any spill or environmental emergency which may endanger human health or the environment should be reported to the Emergency Response 24-HOUR EMERGENCY SPILL HOTLINE toll-free at (800) 282-9378. Report non-emergency complaints to the appropriate district office or local air agency.

If you have any questions regarding your permit, please contact Ohio EPA DAPC, Southeast District Office at (740)385-8501 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



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

Cc: Ohio EPA-SEDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Ormet Production Facility**

Facility ID:	0656005011
Permit Number:	P0119394
Permit Type:	OAC Chapter 3745-31 Modification
Issued:	2/29/2016
Effective:	2/29/2016
Expiration:	4/15/2024



Division of Air Pollution Control
Permit-to-Install and Operate
for
Ormet Production Facility

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Final Permit-to-Install and Operate
Ormet Production Facility
Permit Number: P0119394
Facility ID: 0656005011
Effective Date: 2/29/2016

Authorization

Facility ID: 0656005011
Application Number(s): A0054070, A0054178
Permit Number: P0119394
Permit Description: Chapter 31 modification permit to accommodate the increases in some emissions and decreases in other emissions due to the change in configuration of the production set up.
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$1,600.00
Issue Date: 2/29/2016
Effective Date: 2/29/2016
Expiration Date: 4/15/2024
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Ormet Production Facility
43879 St Rte 7
Hannibal, OH 43931

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

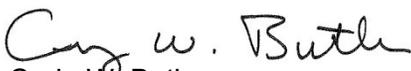
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

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

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Craig W. Butler
Director



Authorization (continued)

Permit Number: P0119394

Permit Description: Chapter 31 modification permit to accommodate the increases in some emissions and decreases in other emissions due to the change in configuration of the production set up.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

- | | |
|-----------------------------------|-----------------------------------|
| Emissions Unit ID: | J001 |
| Company Equipment ID: | TL-1 |
| Superseded Permit Number: | P0115724 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | P015 |
| Company Equipment ID: | Compressor Blowdowns |
| Superseded Permit Number: | P0115724 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | P801 |
| Company Equipment ID: | P801 Equipment Fugitive Emissions |
| Superseded Permit Number: | P0115724 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | T001 |
| Company Equipment ID: | Storage Tanks |
| Superseded Permit Number: | P0115724 |
| General Permit Category and Type: | Not Applicable |

Group Name: 7.7 MMBtu/hr Combusters

Emissions Unit ID:	P011
Company Equipment ID:	COMBUSTOR-1
Superseded Permit Number:	P0115724
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P012
Company Equipment ID:	COMBUSTOR-2
Superseded Permit Number:	P0115724
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P013
Company Equipment ID:	COMBUSTOR-3
Superseded Permit Number:	P0115724
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P014
Company Equipment ID:	COMBUSTOR-4
Superseded Permit Number:	P0115724
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
Ormet Production Facility
Permit Number: P0119394
Facility ID: 0656005011
Effective Date: 2/29/2016

A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions of this permit will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the [DO/LAA] in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit 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.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



Final Permit-to-Install and Operate
Ormet Production Facility
Permit Number: P0119394
Facility ID: 0656005011
Effective Date: 2/29/2016

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) None.
2. Modeling to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), for this project were not necessary because the maximum annual emissions for each toxic air containment as defined in OAC rule 3745-114-01 for the emissions units not exempted from modeling per Ohio EPA Engineering Guide #69, will be less than 1.0 ton per year when controlled. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified PTIO prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials or use of new materials that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new PTIO.
3. Specific emissions units contained in this permit may be subject to 40 CFR Part 60, Subpart OOOO (T001, P801). The complete NSPS requirements, including the NSPS General Provisions, may be accessed via the internet from the e-CFR website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District office or local air agency.
4. Within six months of startup of the facility, the permittee shall collect and analyze a representative sample of the incoming gas and liquids. The permittee shall use the results of the analysis to recalculate the emissions from the various components at the facility utilizing the GRI-GLYCalc or other standard software/emission factors. The permittee shall then compare the results of the revised calculations with the calculations submitted with the air pollution control permit application(s). If the emissions results are significantly different from those results submitted with the application, then the applicant shall submit the revised calculations to the appropriate District Office or Local Air Authority. The applicant should provide all input data used, the basis for each input value used, and the results provided by the program.
5. The composition of the gas being processed may vary due to the nature of the industry. The company will sample the gas semiannually to perform a detailed gas analysis in order to determine if the composition has changed such that it will result in an increase in emissions of any toxic air contaminant. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.



Final Permit-to-Install and Operate
Ormet Production Facility
Permit Number: P0119394
Facility ID: 0656005011
Effective Date: 2/29/2016

C. Emissions Unit Terms and Conditions

1. J001, Truck Loading Operation

Operations, Property and/or Equipment Description:

Produced water and condensate truck loading (13.328 million gallons year) controlled by combustion (EU P011, P012, P013, and P014) with 99.20% capture efficiency and 99.0% control efficiency.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. 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), as effective June 30, 2008	Install combustion devices (P011-P014) designed to achieve a minimum of 99.20% capture and 99.0% control efficiency of volatile organic compounds (VOC) emissions. See b)(2)a. below
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 6/30/2008	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to VOC emissions from this air contaminant source since the potential to emit is less than 10 tons/yr. See b)(2)b. below.

- (2) Additional Terms and Conditions
 - a. This BAT emissions limit applies until U.S. EPA approves OAC rule 3745-31-05(A)(3)(a)(ii) (the less than 10 TPY BAT exemption) into the Ohio State Implementation Plan (SIP).
 - b. These requirements apply once US EPA approves OAC rule 3745-31-05(A)(3)(a)(ii) (the less than 10 TPY BAT exemption) into the Ohio SIP.
- c) Operational Restrictions
 - (1) The permittee shall operate the combustion devices at all times during truck load out for the control of VOC emissions and shall maintain the low pressure flare in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modification deemed necessary by the permittee.
 - (2) In the event the combustion devices are not operating in accordance with the manufacturer's recommendations, instructions, or operating manual, with any modifications deemed necessary by the permittee, the control device shall be expeditiously repaired or otherwise returned to these documented operating conditions.
 - (3) The delivery vessel and flash/storage vessel hatches shall be verified by the driver/operator to be in good condition, closed and properly seated at all times during the loading of the delivery vessel. Prior to connecting the transfer line(s) from the tank to the tank truck, the permittee shall inspect all fittings, valves, gaskets and fasteners that will be used during the transfer to ensure they are in proper condition (i.e., not corroded, torn, worn, stripped or otherwise damaged) and will result in vapor tight connections.
 - (4) During the loading of materials from the tank to the tank truck, the permittee shall continually monitor the transfer equipment, the tank and the tank truck for any leaks through visual, olfactory, or other observations. If any leak is detected, loading of the materials shall cease until the leaking component has been repaired.
 - (5) The permittee shall not permit materials to be spilled, discarded in sewers, stored in open containers or handled in any other manner that would result in evaporation.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall maintain records of the throughput of the emissions unit, in gallons per day.
 - (2) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the combustion devices, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
 - (3) The permittee shall conduct periodic inspections of combustion devices to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be

based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency, and it shall be made available to the Ohio EPA upon request.

- (4) In addition to the recommended periodic inspections, not less than once each calendar year, the permittee shall conduct a comprehensive inspection of the combustion devices while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.
- (5) The permittee shall document each inspection (periodic and annual) of the combustion devices and shall maintain the following information:
 - a. the date of the inspection;
 - b. a description of each/any problem identified and the date it was corrected;
 - c. a description of any maintenance and repairs performed; and
 - d. the name of the person who performed the inspection.
 - e. for transfer operations, the permittee shall maintain a record of the following information:
 - i. the date any leak was detected;
 - ii. the findings of the inspection for the leak, which shall indicate the location, nature, and severity of the leak;
 - iii. the leak detection method;
 - iv. the corrective action(s) taken to repair each leak and the date of final repair; and
 - v. the inspector's name and signature.

These records, and any necessary maintenance or repairs that were completed, shall be maintained at the facility for not less than five years from the date the inspection and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

- (6) The permittee shall maintain records that document any time periods when the combustion devices were not in service when the emissions unit(s) was/were in operation, as well as a record of all operations during which the low pressure flare was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Service online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

f) Testing Requirements

a. Design Efficiency:

Install combustion devices (P011-P014) designed to achieve minimum of 99.20% capture and 99.0% control efficiency of volatile organic compounds (VOC) emissions.

Applicable Compliance Methods:

Compliance is demonstrated by installing and operating a low pressure flare with a minimum of 99.2% capture and 99.0% control efficiency for VOC emissions.

g) Miscellaneous Requirements

- (1) None.

2. P015, Compressor Blowdowns

Operations, Property and/or Equipment Description:

Compressor blowdowns from engines and flash compressor (1.2 mmscf/year) uncontrolled. Chapter 31 modification to P0115724 to include increases from new engines and correct to show this unit was never controlled.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. 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), as effective June 30, 2008	Volatile organic compounds (VOC) emissions shall not exceed 0.71 ton per month averaged over a twelve-month, rolling period. See b)(2)a. below.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 6/30/2008	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to VOC emissions from this air contaminant source since the potential to emit is less than 10 tons/yr. See b)(2)b. below.

- (2) Additional Terms and Conditions
 - a. This BAT emissions limit applies until U.S. EPA approves OAC rule 3745-31-05(A)(3)(a)(ii) (the less than 10 TPY BAT exemption) into the Ohio State Implementation Plan (SIP).
 - b. These requirements apply once US EPA approves OAC rule 3745-31-05(A)(3)(a)(ii) (the less than 10 TPY BAT exemption) into the Ohio SIP.
- c) Operational Restrictions
 - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall maintain the following records for compressor blowdown events:
 - a. the date, number, and type of each compressor blowdown event;
 - b. percent VOC fraction in the gas stream obtained by representative sampling and analysis (e.g., gas chromatography);
 - c. total volume of gas emitted from each blowdown event; and
 - d. total volume of gas emitted from all blowdown events per year.
- e) Reporting Requirements
 - (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Service online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
 - (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- 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:

VOC emissions shall not exceed 0.71 ton per month averaged over a twelve-month, rolling period.

Applicable Compliance Method:

The per month averaged over a twelve-month, rolling period emission limitation was determined by the following calculation and the information provided in the permittee's application.

$$\left\{ \left(\frac{1,157,172 \text{ scf}}{\text{yr}} * \frac{0.060 \text{ lb}}{\text{scf}} \right) + \left(\frac{7,920 \text{ scf}}{\text{yr}} * \frac{0.102 \text{ lb}}{\text{scf}} \right) * \left(0.2446 \frac{\text{lb VOC}}{\text{lb gas}} \right) \right\} * \frac{1 \text{ ton}}{2000 \text{ lbs}} * \frac{1 \text{ year}}{12 \text{ months}} = 0.71 \text{ ton/m}$$

Compliance is demonstrated by multiplying the actual amount of scf per year and most recent gas analysis as determined by the records required in d)(1).

g) Miscellaneous Requirements

(1) None.

3. P801, Fugitive Emissions

Operations, Property and/or Equipment Description:

Fugitive equipment leaks from valves, flanges, seals, and connectors in VOC or wet gas service. Chapter 31 modification to PTIO P0115724 for increases in equipment.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. 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)	Develop and implement a site-specific leak detection and repair program for ancillary equipment as described in c) below.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) Ancillary Equipment Leak Detection and Repair Program

The permittee shall develop and implement a leak detection and repair program designed to monitor and repair leaks from ancillary equipment covered by this permit, including each pump, compressor, pressure relief device, connector, valve, flange, vent, cover, any bypass in the closed vent system, and each storage vessel. This program shall meet the following requirements:

- a. Leaks shall be detected by the use of either a "Forward Looking Infra-Red" (FLIR) camera or an analyzer meeting U.S. EPA Method 21 of 40 CFR Part 60, Appendix A.
 - b. An initial monitoring shall be completed within 30 days of startup and quarterly thereafter for a period of four consecutive quarters (1 year).
 - c. If following the initial four consecutive quarters, less than or equal to 2.0% of the ancillary equipment are determined to be leaking during the most recent quarterly monitoring event, then the frequency of monitoring can be reduced to semi-annual.
 - d. If following two consecutive semi-annual periods, less than 2.0% of the ancillary equipment are determined to be leaking during the most recent semi-annual monitoring event, then the frequency of the monitoring can be reduced to annual.
 - e. If more than or equal to 2.0% of the ancillary equipment are determined to be leaking during any one of the semi-annual or annual monitoring events, then the frequency of monitoring shall be returned to quarterly.
 - f. The program shall require the first attempt at repair within five (5) calendar days of determining a leak.
 - g. The program shall require that the leaking component is repaired within 30 calendar days after the leak is detected.
 - h. The program shall allow for the delayed repair of a leaking component following the language found in 40 CFR 60.5416(c)(5).
 - i. The program shall following the Monitoring and Record Keeping requirements described in paragraph 5.d) of this permit.
- (2) In the event that a leak or defect is detected in the cover, closed vent system, process equipment, or control device, the permittee shall make a first attempt at repair no later than 5 calendar days after the leak is detected. Repair shall be completed no later than 30 calendar days after the leak is detected as allowed in 40 CFR 60.5416(c)(4). Any delay of repair of a leak or defect shall meet the requirements of 40 CFR 60.5416(c)(5).
- d) **Monitoring and/or Recordkeeping Requirements**
- (1) **Ancillary Equipment Leak Detection and Repair Program Monitoring and Record Keeping for Programs Utilizing FLIR Cameras**
 - a. Leaks shall be determined by visually observing each ancillary component through the FLIR camera to determine if leaks are visible.
 - b. The following information shall be recorded during each leak inspection:
 - i. the date the inspection was conducted;
 - ii. the name of the employee conducting the leak check;

- iii. the identification of any component that was determined to be leaking;
 - iv. the date the first attempt to repair the component was made;
 - v. the reason the repair was delayed following the language found in 40 CFR 60.5416(c)(5);
 - vi. the date the component was repaired and determined to no longer be leaking;
 - vii. the total number of components that are leaking; and
 - viii. the percentage of components leaking, determined as the sum of the number of components for which a leak was detected, divided by the total number of ancillary components capable of developing a leak, and multiplied by 100.
- c. The permittee shall maintain records that demonstrate the FLIR camera is operated and maintained in accordance with the manufacturer's operation and maintenance instructions.
 - d. The records from each inspection and the dates each leak is detected and repaired shall be maintained for at least 5 years and shall be made available to the Director or his representative upon verbal or written request.
- (2) Ancillary Equipment Leak Detection and Repair Program Monitoring and Record Keeping for Programs Utilizing a Method 21 Analyzer
- a. Leaks shall be measured by utilizing U.S. EPA Method 21 (40 CFR Part 60, Appendix A). All potential leak interfaces shall be traversed as close to the interface as possible. The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 500 ppm or 10,000 ppm (as applicable) for determining compliance.
 - b. A component is considered to be leaking if the instrument reading is equal to or greater than:

pressure relief device in gas/vapor service	10,000 ppm
pressure relief device in light liquid service	10,000 ppm
pumps in light liquid service	10,000 ppm
compressor	500 ppm
sampling connection system*	*
open ended valves or lines**	**
valves in gas/vapor and light liquid service	10,000 ppm



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closed vent system	500 ppm
connectors	10,000 ppm
all other ancillary and associated equipment in VOC service	10,000 ppm

* must be equipped with a closed-purge, closed-loop, or closed-vent system

** must be equipped with a cap, blind flange, plug, or a second valve

- c. The following information shall be recorded during each leak inspection:
 - i. the date the inspection was conducted;
 - ii. the name of the employee conducting the leak check;
 - iii. the identification of any component that was determined to be leaking (company ID and component type (flange, pump, etc.);
 - iv. the date the first attempt to repair the component was made;
 - v. the reason the repair was delayed following the language found in 40 CFR 60.5416(c)(5);
 - vi. the date the component was repaired and determined to no longer be leaking;
 - vii. the total number of components that are leaking; and
 - viii. the percentage of components leaking, determined as the sum of the number of components for which a leak was detected, divided by the total number of ancillary components capable of developing a leak, and multiplied by 100.
- d. The permittee shall maintain records that demonstrate the Method 21 analyzer is operated and maintained in accordance with the manufacturer's operation and maintenance instructions.
- e. In order to calibrate the analyzer, the following calibration gases shall be used:
 - i. zero air, which consists of less than 10 ppm of hydrocarbon in air; and
 - ii. a mixture of air and methane or n-hexane at a concentration of approximately, but less than, 10,000 ppm of methane or n-hexane.
- f. The records from each inspection and the dates each leak is detected and repaired shall be maintained for at least 5 years and shall be made available to the Director or his representative upon verbal or written request.

- (3) The permittee shall perform daily inspections, each day that an operator is at the facility and when the facility is in operation, for indications of releases from the pressure relief valves, and any olfactory, visual, or auditory indications of equipment leaks. The positive indication of a release or a leak shall be noted in an operations log, along with the following information:
 - a. the name of the inspector;
 - b. the date and time inspected;
 - c. the identification of the pressure relief valve that released and/or piece of equipment that leaked;
 - d. the estimated or calculated duration of the pressure relief valve release and/or equipment leak and the estimated emission totals; and
 - e. any corrective actions taken to minimize or eliminate the release or leak.
- e) Reporting Requirements
 - (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
 - (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
 - (3) Supplement to the PER for the Ancillary Equipment Leak Detection and Repair Program

For each inspection that occurred during the year, the permittee shall submit the following information with the annual PER from data collected by the ancillary equipment leak detection and repair program:

 - a. the date of the inspection;
 - b. the number of components determined to be leaking;
 - c. the company ID and component type (flange, pump, etc.) of each leaking component;
 - d. the total number of components at the site;
 - e. the percent of components determined to be leaking;
 - f. a list of all components that have not been repaired due to a delay of repair and the reason for the delay; and
 - g. a notification indicating if the permittee has changed future inspection frequencies based on the percent of components leaking.



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- f) Testing Requirements
 - (1) None.
- g) Miscellaneous Requirements
 - (1) None.

4. T001, Condensate and Produced Water Storage Tanks

Operations, Property and/or Equipment Description:

Five 500 bbl condensate and five 500 bbl produced water tanks with annual throughput of 317,333 bbl of condensate and produced water with 100% capture and 99% control of VOC and total HAPs emissions through combustion devices (P011-P014)

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. 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	Install an enclosed flare (P011, P012, P013, and P014) designed to achieve 99% capture efficiency and a minimum of 99% control efficiency of volatile organic compound (VOC) emissions. See C.5 for additional enclosed combustor requirements
b.	OAC rule 3745-21-09(L)	Exempt pursuant to OAC 3745-21-09(L)(2).
c.	40 CFR Part 60, Subpart OOOO [In accordance with 40 CFR, 60.5360-60.5430, each tank included in this emissions unit is a single storage vessel located in the oil and natural gas production	Pursuant to 40 CFR Part 60.5365(e), each storage vessel at this facility has a PTE of less than 6 TPY taking into account the control requirements of b)(1)a. above, and is, therefore, exempt from the requirements of 40 CFR Part 60, Subpart OOOO.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	segment, natural gas processing segment, or natural gas transmission and storage segment.]	See b)(2)a. below.

(2) Additional Terms and Conditions

a. The permittee shall calculate the potential for VOC emissions for each single storage vessel (defined in 40 CFR 60.5430) using an accepted model or calculation methodology. Emissions of VOC shall be based on the maximum average daily throughput determined for a 30-day period of production 30 days after startup for storage vessels installed after 4/12/2013, i.e., Group 2 storage vessels.

c) Operational Restrictions

(1) Organic vapors released from the storage vessels shall be vented and controlled at all times by the enclosed combustors P011, P012, P013, and P014 (See C.5 for additional requirements).

(2) The permittee shall install and operate a system to automatically close the shut-down valves for the inlet line(s) to the tanks in order to prevent the tank(s) from uncontrolled venting. This system shall continuously monitor the tank pressure, the liquid level or both.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain records of the throughput of the emissions unit, in bbl/d.

(2) The permittee shall record the following information on a monthly basis:

a. the number of valve shutdowns from the inlet separator that result from the storage tank pressure or storage tank liquid level reaching the value established in c)(4), including the date and time, duration and reason; and

b. the number of uncontrolled releases to the atmosphere that result from the tank pressure or liquid level exceeding the values established in c)(4). Details of these releases shall be immediately provided to the Ohio EPA per OAC rule 3745-15-06(B).

(3) The permittee shall properly install, operate, and maintain a continuous pressure monitor and recorder that measure and record the pressure and/or the liquid level within the storage vessels when the emissions unit is in operation, including periods of startup and shutdown. The permittee shall record the pressure/liquid level on a continuous 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. These records shall be maintained for a period of no less than 5 years. These records can be kept

electronically, provided they can be made available to the appropriate Ohio EPA District Office or local air agency.

- (4) The permittee shall collect a condensate sample within 30 days of the first facility startup and perform a detailed gas analysis in order to determine the VOC and HAP composition. This sampling shall be repeated on a semiannual basis.
- (5) The permittee shall maintain the following records documenting the facility's determination of emissions from each storage vessel:

a.	CFR 60.5365(e)	Potential VOC calculations
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e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

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. Design Efficiency:

Install an enclosed flare (P011, P012, P013, and P014) designed to achieve 99% capture efficiency and a minimum of 99% control efficiency of volatile organic compound (VOC) emissions.

Applicable Compliance Method:

Compliance shall be demonstrated by a manufacturer's design efficiency for the enclosed combustors of 99% capture and a minimum of 99% control efficiency for VOC emissions.

g) Miscellaneous Requirements

- (1) Any amendment to Part 60, Subpart OOOO shall supersede the Subpart OOOO compliance limitations and/or options contained in this permit.

5. Emissions Unit Group -7.7 MMBtu/hr Combusters: P011,P012,P013,P014,

EU ID	Operations, Property and/or Equipment Description
P011	7.7 MMBtu/hr without pilot, enclosed combustor, controlling J001, P008, P009, and T001 (99% control efficiency of VOCs, total HAPs, Toulene, Ethylbenzene, and Xylene)
P012	7.7 MMBtu/hr without pilot, enclosed combustor, controlling J001, P008, P009, and T001 (99% control efficiency of VOCs, total HAPs, Toulene, Ethylbenzene, and Xylene)
P013	7.7 MMBtu/hr without pilot, enclosed combustor, controlling J001, P008, P009, and T001 (99% control efficiency of VOCs, total HAPs, Toulene, Ethylbenzene, and Xylene)
P014	7.7 MMBtu/hr without pilot, enclosed combustor, controlling J001, P008, P009, and T001 (99% control efficiency of VOCs, total HAPs, Toulene, Ethylbenzene, and Xylene)

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. 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), as effective June 30, 2008	Nitrogen oxides (NO _x) emissions shall not exceed 0.19 ton/m as a rolling, twelve-month average. See b)(2)a. below.
b.	ORC 3704.03(T)	Carbon monoxide (CO) emissions shall not exceed 1.04 ton/m as a rolling, twelve-month average.
c.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective June 30, 2008	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		NO _x emissions from this air contaminant source since the potential to emit is less than 10 ten tons per year (tpy). See b)(2)b. below.

(2) Additional Terms and Conditions

- a. These BAT emissions limit applies until US EPA approves OAC rule 3745-31-05(A)(3)(a)(ii) (the less than 10 TPY BAT exemption) into the Ohio State Implementation Plan (SIP).
- b. These requirements apply once US EPA approves OAC rule 3745-31-05(A)(3)(a)(ii) (the less than 10 TPY BAT exemption) into the Ohio SIP.

c) Operational Restrictions

- (1) The permittee shall burn only natural gas or waste gas in this emissions unit.
- (2) The enclosed combustor shall be operated with a flame present at all times when gases are vented to it.
- (3) An automatic flame ignition system shall be installed to meet one of the following requirements:
 - a. If using a pilot flame ignition system, the presence of a pilot flame shall be monitored using a thermocouple or other equivalent device to detect the presence of a flame. A pilot flame shall be maintained at all times in the combustor's pilot light burner. If the pilot flame goes out and does not relight, then an alarm shall sound; or
 - b. If using an electric arc ignition system, the arcing of the electric arc ignition system shall pulse continually and a device shall be installed and used to continuously monitor the electric arc ignition system.
- (4) The enclosed combustor, its auto ignition system, and its recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals, with any modifications deemed necessary by the permittee.
- (5) In the event the enclosed combustors are not operating in accordance with the manufacturer's recommendations, instructions, or operating manual, with any modifications deemed necessary by the permittee, the enclosed combustors shall be expeditiously repaired or otherwise returned to these documented operating conditions.

d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall maintain records of the amount of gas (scf/month) vented to the enclosed combustors.
- (2) 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.
- (3) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the enclosed combustors, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
- (4) The permittee shall conduct periodic inspections of the enclosed combustors to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency, and it shall be made available to Ohio EPA upon request.
- (5) In addition to the recommended periodic inspections, not less than once each calendar year, the permittee shall conduct a comprehensive inspection of enclosed combustors while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.
- (6) The permittee shall document each inspection (periodic and annual) of the enclosed combustors and shall maintain the following information:
 - a. the date of the inspection;
 - b. a description of each/any problem identified and the date it was corrected;
 - c. a description of any maintenance and repairs performed; and
 - d. the name of the person who performed the inspection.

These records, and any necessary maintenance or repairs that were completed, shall be maintained at the facility for not less than five years from the date the inspection and shall be made available to the appropriate Ohio EPA District Office or local air upon request.

- (7) The permittee shall properly install, operate, and maintain a continuous temperature monitor and recorder that measure and record the temperature of the enclosed combustor stack when the organic vapors are being routed to the combustor, including periods of startup and shutdown. 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. These records can be kept electronically, provided they can be made available to the appropriate Ohio EPA District Office or local air agency.

(8) The permittee shall:

- a. continuously monitor the presence of the flame;
- b. record all periods during which the automatic flare ignition system (pilot flame or electronic arc ignition system) or thermocouple was not working and gas was being vented to the flare/combustion device; and
- c. record all periods of time during which gas was being vented to the flare/combustion device and there was no flame.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA’s eBusiness Center: Air Service online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

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:

NO_x emissions shall not exceed 0.19 ton/m as a rolling, 12-month average.

Applicable Compliance Method:

The emissions limitation was derived by the following calculations based on the emissions factors from AP-42, Table 13.5-1 and worst case scenario in the permittee’s application:

Flare Emissions:

$$\frac{7.7 \text{ MMBtu}}{\text{hr}} * \frac{0.068 \text{ lb NO}_x}{\text{MMBtu}} * \frac{8760 \text{ hr}}{\text{yr}} * \frac{\text{ton}}{2,000 \text{ lb}} * \frac{\text{yr}}{12 \text{ m rolling}} = 0.19 \frac{\text{ton}}{\text{m rolling 12}}$$

Where:

- 7.7 MMBtu = maximum hourly rating
- 0.068 = EF (AP-42, Table 13.5-1)



b. Emissions Limitation:

CO emissions shall not exceed 1.04 ton/m as a rolling, 12-month average.

Applicable Compliance Method:

The emissions limitation was derived by the following calculations based on the emissions factors from AP-42, Table 13.5-1 and the worst case scenario in the permittee's application:

$$\frac{7.7 \text{ MMBtu}}{\text{hr}} * \frac{0.37 \text{ lb CO}}{\text{MMBtu}} * \frac{8760 \text{ hr}}{\text{yr}} * \frac{\text{ton}}{2,000 \text{ lb}} * \frac{\text{yr}}{12 \text{ m rolling}} = 1.04 \frac{\text{ton}}{\text{m rolling 12}}$$

7.7 MMBtu = maximum hourly rating
0.037 = EF (AP-42, Table 13.5-1)

g) Miscellaneous Requirements

(1) None.