



Environmental Protection Agency

John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

4/2/2012

Douglas Kitchen  
Chieftain Biofuels, LLC  
32919 Logan-Hornsmill Road  
Logan, OH 43138

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE  
Facility ID: 0637015002  
Permit Number: P0109577  
Permit Type: Initial Installation  
County: Hocking

Certified Mail

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

Dear Permit Holder:

Enclosed please find a final 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. Please complete a survey at [www.epa.ohio.gov/dapc/permitsurvey.aspx](http://www.epa.ohio.gov/dapc/permitsurvey.aspx) and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI 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  
309 South Fourth Street, Room 222  
Columbus, OH 43215

If you have any questions, 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. This permit can be accessed electronically on the DAPCWeb page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc), by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-SEDO





**FINAL**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
Chieftain Biofuels, LLC**

Facility ID:	0637015002
Permit Number:	P0109577
Permit Type:	Initial Installation
Issued:	4/2/2012
Effective:	4/2/2012
Expiration:	12/19/2018





Division of Air Pollution Control
Permit-to-Install and Operate
for
Chieftain Biofuels, LLC

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## Authorization

Facility ID: 0637015002  
Application Number(s): A0043859  
Permit Number: P0109577  
Permit Description: First-issue PTIO for an existing biodiesel facility (increase in production with respect to quantity of waste oil used triggered NSPS VVa and need for permit).  
Permit Type: Initial Installation  
Permit Fee: \$200.00  
Issue Date: 4/2/2012  
Effective Date: 4/2/2012  
Expiration Date: 12/19/2018  
Permit Evaluation Report (PER) Annual Date: July 1 - June 30, Due Aug 15

This document constitutes issuance to:

Chieftain Biofuels, LLC  
32919 Logan-Hornsmill Road  
Logan, OH 43138

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

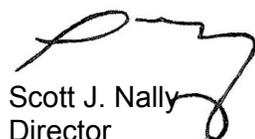
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

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

  
Scott J. Nally  
Director



## **Authorization (continued)**

Permit Number: P0109577

Permit Description: First-issue PTIO for an existing biodiesel facility (increase in production with respect to quantity of waste oil used triggered NSPS VVa and need for permit).

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

<b>Emissions Unit ID:</b>	<b>P801</b>
Company Equipment ID:	P801
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

## **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. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. 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 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 Ohio EPA DAPC, Southeast District Office 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<sup>1</sup> 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 emissions 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.

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<sup>1</sup>Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

**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.

## **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. The following emissions unit contained in this permit is subject to 40 CFR Part 60, Subpart VVa: P801. The complete NSPS requirements may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District office or local air agency.

## **C. Emissions Unit Terms and Conditions**



1. P801, Fugitive Equipment Leaks

Operations, Property and/or Equipment Description:

Fugitive OC emissions from various equipment components, including pumps in light liquid service, pumps in heavy liquid service, sampling ports, open ended valves or lines, valves in light liquid service and connectors in light liquid service.

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 11/30/01.	Organic Compounds (OC) emissions shall not exceed 7.00 tons/yr.  See b)(2)a. below.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/1/06.	See b)(2)b. below.
c.	40 CFR Part 60, Subpart VVa (60.480a - 60.489a)  [In accordance with 40 CFR 60.480a (a)(1), (2) and (b), this emissions unit includes fugitive leaks from equipment in a process unit in an affected facility in the synthetic organic chemicals manufacturing industry that commences	See b)(2)c. and d. below.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	construction, reconstruction, or modification after November 7, 2006]	
d.	40 CFR Part 60, Subpart A (60.1-19)	The owner or operator shall comply with all applicable requirements of this rule, except as provided in 60.486a(k), 60.7(b) and (d) do not apply, and except as provided in 60.487a(e).

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.

b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05 (A)(3) do not apply to OC emission from this air contaminant source since the calculated annual emission rate for OC is less than 10 tons per year.

c. In accordance with 40 CFR Part 60 Subpart VVa, the following pieces of equipment are affected facilities in a process unit in a synthetic organic chemicals manufacturing industry that commences construction, reconstruction, or modification after November 7, 2006. Fugitive leaks from the following equipment are covered by this permit and subject to the NSPS requirements:

Equipment Type

Valves

Connectors

Open-ended lines

Pump seals



- d. The permittee shall comply with the applicable restrictions required under 40 CFR Part 60, Subpart VVa, including the following sections:

60.480a(e)	Alternate means of compliance through 40 CFR Part 65, Subpart F.
60.482-1a(a)	Demonstrate compliance within 180 days of startup.
60.482-1a(b)	Compliance will be demonstrated through review of records, reports, performance test results and inspections.
60.482-1a(c)	Equivalent emissions limitation determination.
60.483-1a(a), (b), (c)(2), (c)(3) and (d)	Alternative compliance standards for valves- allowable percentage of valves leaking.
60.483-2a(a)(1), (b)(2), (b)(3) and (b)(4)	Alternative compliance standards for valves - skip period leak detection and repair.
60.484a	Requirements for equivalence means of emissions limitation.

c) Operational Restrictions

- (1) The permittee shall comply with the applicable restrictions required under 40 CFR Part 60, Subpart VVa, including the following sections:

60.482-2a(b)(2)(ii)	Leak repair schedule for a pump in light liquid service.
60.482-2a(c)	Leak repair requirements and deadlines for pumps in light liquid service.
60.482-2a(d)	Exemptions from specific requirements if a mechanical seal system is used in a pump in light liquid service.
60.482-2a(e) and 60.486a(e)	Exemptions from specific requirements if pump meets designation as having "no detectable emissions."



60.482-2a(g) and 60.486a(f)(1)	Exemptions from specific requirements if any pump is designated as an “unsafe-to-monitor pump.”
60.482-6a(a)(1)	Equip each open-ended valve or line with a cap, blind flange, plug or a second valve, with exceptions.
60.482-6a(a)(2) and (b) through (e)	Standards for open-ended valves or lines.
60.482-7a(d)(1) and (2)	Repair schedule for detected leaks of valves in light liquid service.
60.482-7a(e)	Use best practices in the first attempt at repair of leaks from valves in light liquid service.
60.482-8a(c)	Leak repair schedule for pumps, valves and connectors in heavy liquid service.
60.482-8a(d), 60.482-2a(c)(2) and 60.482-7a(e)	Use best practices in the first attempt at repair of leaks from pumps, valves, and connectors in heavy liquid service.
60.482-9a	Requirements for delays of repair.
60.482-11a(d)	Leak repair schedule for connectors in light liquid service.
60.482-11a(f)	Exemptions from specific leak repair requirements if connectors in light liquid service are designated as inaccessible.
60.483-1a(3)	Repair requirements if alternative standards for valves - allowable percentage of valves leaking, is practiced.

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

- (1) The permittee shall comply with the applicable monitoring and recordkeeping requirements required under 40 CFR Part 60, Subpart and VVa, including the following sections:

60.482-1a(f)	Alternate monitoring frequency.
60.482-2a(a)(1)	Monthly inspection requirements for pumps in light liquid service.



60.482-2a(a)(2)	Weekly inspection requirements for pumps in light liquid service.
60.482-2a(b)(1)	Instrument reading thresholds for leak detection of pumps in light liquid service.
60.482-2a(b)(2)(i)	Light liquid pump monitoring requirements for light liquid pumps after a leak is discovered.
60.482-7a(a)(1)	Monthly inspection requirements for valves in light liquid service.
60.482-7a(b)	Instrument reading thresholds for leak detection of valves in light liquid service.
60.482.7a(c)(1)(i)	Monitoring schedule for valves in light liquid service wherein a leak has not been detected for two successive months.
60.482-7a(c)(1)(ii)	Alternative monitoring schedule for valves in light liquid service wherein a leak has not been detected for two successive months.
60.482-7a(c)(2)	Monthly monitoring requirements for valves in light liquid service if a leak is detected.
60.482-8a(a) and (b)	Monitoring of pump, valve and connector leaks in heavy liquid service.
60.482-11a(a) and (c)	Monitoring requirements of connectors in light liquid service.
60.483-1a(c)(1)	Monitoring requirements if alternate standard for valves is practiced – allowable percentage of valves leaking.
60.483-2a(b)(1),(b)(6), and (b)(7)	Monitoring requirements if alternate standard for valves is practiced – skip period leak detection and repair.

60.486a(b) and (c)	Maintain required information and follow procedure for detected leaks.
60.486a(e)	Maintain required information pertaining to equipment subject to the requirements 60.482.
60.486a(a)(3)	Maintain records of detected leaks, leak repairs and monitoring requirements.
60.486a(f)	Maintain required information for valves, pumps and connectors.
60.486a(g)	Maintain required information pertaining to monitoring schedule of detected leaks.
60.486a(h)	Maintain required information on design criteria.
60.486a(j)	Maintain a log of equipment not in OC service.
60.482-7a(f)	Exemptions from specific requirements if valves in light liquid service meet designation as having “no detectable emissions.”
60.482-7a(g)	Exemptions from specific requirements if any valve is designated as an “unsafe-to-monitor valve.”
60.482-7a(h)	Requirements if any valve is described as a “difficult-to-monitor valve.”
60.482-11a(e)	Exemptions from specific monitoring requirements if connectors in light liquid service are designated as “unsafe to monitor.”



60.482-11a(f)	Exemptions from specific monitoring requirements if connectors in light liquid service are designated as inaccessible.
60.482-11a(g)	Exemptions from requirements to individually identify connectors.

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) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director 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) The permittee shall comply with the applicable monitoring and recordkeeping requirements required under 40 CFR Part 60, Subpart and VVa, including the following sections:

60.482-11a(f)	Exemptions from specific reporting requirements if connectors in light liquid service are designated as inaccessible.
60.487a(a)	Submit semiannual reports beginning six months after the initial startup date.
60.487a(b) and (c)	Initial and subsequent semiannual report requirements.
60.487a(d)and 60.483-1a(b)(1)	Reporting requirements if alternative standards for valves - allowable percentage of valves leaking or alternative standards for valves – skip period leak detection and repair is practiced.
60.487a(e)	Requirements for reporting of performance tests.

f) Testing Requirements

(1) Compliance with the emissions limitations and/or control requirements specified in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:  
OC emissions shall not exceed 7.00 tons/yr.

Applicable Compliance Method:

Compliance with the annual OC emissions limitation shall be demonstrated by the following one-time calculation based on the average emission factor approach described in USEPA "Protocol for equipment Leak Emission Estimates," EPA-453/R-95-017. Calculations are based on the number of specific component sources supplied by the permittee, the weight fraction of Total Organic Compound (TOC), per source, supplied by the permittee, and the emissions factor (EF) of each source from EPA-453/R-95-017, Table 2.1.

$$\begin{aligned} \text{OC} = & [(\# \text{ of valves in heavy liquid service}) \times (\text{heavy liquid valve EF}) \times (\text{weight fraction of TOC}) \\ & + (\# \text{ of valves in light liquid service}) \times (\text{light liquid valve EF}) \times (\text{weight fraction of TOC}) \\ & + (\# \text{ of seals in heavy liquid pumps}) \times (\text{heavy liquid pump EF}) \times (\text{weight fraction of TOC}) \\ & + (\# \text{ of seals in light liquid pumps}) \times (\text{light liquid pump EF}) \times (\text{weight fraction of TOC}) \\ & + (\# \text{ of connectors}) \times (\text{connector EF}) \times (\text{weight fraction of TOC}) \\ & + (\# \text{ of open ended-lines}) \times (\text{open-ended lines EF}) \times (\text{weight fraction of TOC})] \\ & \times 2.2 \text{ lb/kg} \times 8760 \text{ hr/yr} \times 1 \text{ ton}/2000\text{lb} \end{aligned}$$

Where: EF of Heavy liquid valves = 0.00023 kg/hr

EF of Light liquid valves = 0.00403 kg/hr

EF of Heavy liquid pumps = 0.00862 kg/hr

EF of Light liquid pumps = 0.0199 kg/hr

EF of Connectors = 0.00183 kg/hr

EF of Open-ended lines = 0.0017 kg/hr

The following number of specific components were used in initial calculations:



Heavy liquid valves	75
Light Liquid valves	7
Heavy Liquid pumps	10
Light liquid pumps	2
Connectors	266
Open ended lines	39

- (2) The permittee shall comply with the following testing requirements pursuant to 40 CFR Part 60, Subpart VVa, including the following sections:

60.483-1a(b)(2) and 60.483-1a(c)	Performance testing requirements if alternative standards for valves, allowable percentage of valves leaking, is practiced.
60.485a(a)and (b)	Requirements for performance test procedures and methods.
60.485a(c)	Maintain calibration of test instruments.
60.485a(d) through (f)	Comply with procedures and sampling requirements for determining OC service and light liquid service.
60.485a(h)	Method to show compliance with alternative standard for valves.

g) Miscellaneous Requirements

- (1) None.