



2/18/2014

Bill Rupert  
 BP-Husky Refining LLC  
 4001 Cedar Point Road  
 Oregon, OH 43616

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL  
 Facility ID: 0448020007  
 Permit Number: P0110087  
 Permit Type: Administrative Modification  
 County: Lucas

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
Yes	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	MAJOR GHG
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, we urge you to read it carefully. 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**

**How to appeal this permit**

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  
 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](http://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](http://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](http://www.epa.ohio.gov/dapc) by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Toledo Department of Environmental Services at (419)936-3015 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael W. Ahern, Manager

Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA  
TDES; Michigan; Indiana; Canada



**FINAL**

**Division of Air Pollution Control  
Permit-to-Install  
for  
BP-Husky Refining LLC**

Facility ID:	0448020007
Permit Number:	P0110087
Permit Type:	Administrative Modification
Issued:	2/18/2014
Effective:	2/18/2014





**Division of Air Pollution Control**  
**Permit-to-Install**  
for  
BP-Husky Refining LLC

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**Final Permit-to-Install**  
BP-Husky Refining LLC  
**Permit Number:** P0110087  
**Facility ID:** 0448020007  
**Effective Date:** 2/18/2014

## Authorization

Facility ID: 0448020007  
Facility Description: Toledo Refinery  
Application Number(s): M0001680  
Permit Number: P0110087  
Permit Description: Administrative modification to correct the applicability of NSPS Subpart Kb as amended on October 15, 2003.  
Permit Type: Administrative Modification  
Permit Fee: \$2,125.00  
Issue Date: 2/18/2014  
Effective Date: 2/18/2014

This document constitutes issuance to:

BP-Husky Refining LLC  
4001 Cedar Point Road  
P.O. Box 696  
Oregon, OH 43697

of a Permit-to-Install 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:

Toledo Department of Environmental Services  
348 South Erie Street  
Toledo, OH 43604  
(419)936-3015

The above named entity is hereby granted a Permit-to-Install for the 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 emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

  
Craig W. Butler  
Interim Director



## Authorization (continued)

Permit Number: P0110087  
 Permit Description: Administrative modification to correct the applicability of NSPS Subpart Kb as amended on October 15, 2003.

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

**Emissions Unit ID: P028**  
 Company Equipment ID: "A" Train Diesel Hydrotreater  
 Superseded Permit Number: P0111667  
 General Permit Category and Type: Not Applicable

**Group Name: P0110087 Tank Grp 2 21-09(L) FR**

<b>Emissions Unit ID:</b>	<b>T153</b>
Company Equipment ID:	FR, PR-500175
Superseded Permit Number:	04-708
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>T154</b>
Company Equipment ID:	FR, PR-500174
Superseded Permit Number:	04-708
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>T156</b>
Company Equipment ID:	FR, PR-500171
Superseded Permit Number:	04-708
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>T157</b>
Company Equipment ID:	FR, PR-500002
Superseded Permit Number:	04-708
General Permit Category and Type:	Not Applicable



**Final Permit-to-Install**  
BP-Husky Refining LLC  
**Permit Number:** P0110087  
**Facility ID:** 0448020007  
**Effective Date:** 2/18/2014

## **A. Standard Terms and Conditions**



## **1. Federally Enforceable Standard Terms and Conditions**

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
- (1) Standard Term and Condition A.2.a), Severability Clause
  - (2) Standard Term and Condition A.3.c) through A. 3.e) General Requirements
  - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
  - (4) Standard Term and Condition A.9., Reporting Requirements
  - (5) Standard Term and Condition A.10., Applicability
  - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
  - (7) Standard Term and Condition A.14., Public Disclosure
  - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
  - (9) Standard Term and Condition A.16., Fees
  - (10) Standard Term and Condition A.17., Permit Transfers

## **2. Severability Clause**

- a) A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

## **3. General Requirements**

- a) Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification.



- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

#### **4. Monitoring and Related Record Keeping and Reporting Requirements**

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - (1) The date, place (as defined in the permit), and time of sampling or measurements.
  - (2) The date(s) analyses were performed.
  - (3) The company or entity that performed the analyses.
  - (4) The analytical techniques or methods used.
  - (5) The results of such analyses.
  - (6) The operating conditions existing at the time of sampling or measurement.
- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Toledo Department of Environmental Services.



- (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Toledo Department of Environmental Services. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.
  - (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the Toledo Department of Environmental Services every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
  - (4) This permit is for an emissions unit located at a Title V facility. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

## **5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Toledo Department of Environmental Services in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

## **6. Compliance Requirements**

- a) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the appropriate Ohio EPA District Office or contracted



local air agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the electronic signature date shall constitute the date that the required application, notification or report is considered to be "submitted". Any document requiring signature may be represented by entry of the personal identification number (PIN) by responsible official as part of the electronic submission process or by the scanned attestation document signed by the Authorized Representative that is attached to the electronically submitted written report.

Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a Responsible Official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
  - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c) The permittee shall submit progress reports to the Toledo Department of Environmental Services concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
  - (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

## **7. Best Available Technology**

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.



**8. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**9. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Toledo Department of Environmental Services.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Toledo Department of Environmental Services. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**10. Applicability**

This Permit-to-Install is applicable only to the emissions unit(s) identified in the Permit-to-Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s) not exempt from the requirement to obtain a Permit-to-Install.

**11. Construction of New Sources(s) and Authorization to Install**

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the



Director within a reasonable time before the termination date and the permittee shows good cause for any such extension.

- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., 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) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update electronically will constitute notifying the Director of the permanent shutdown of the affected emissions unit(s).
- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., 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). All records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

Unless otherwise exempted, no emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31 and OAC Chapter 3745-77 if the restarted operation is subject to one or more applicable requirements.

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

## **12. Permit-To-Operate Application**

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if operation of the proposed new or modified source(s) as authorized by this permit would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d) must be obtained before operating the source in a manner that would violate the existing Title V permit requirements.



**13. Construction Compliance Certification**

The applicant shall identify the following dates in the "Air Services" facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

**14. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

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

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

**16. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

**17. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in "Air Services" once the transfer is legally completed. The change must be submitted through "Air Services" within thirty days of the ownership transfer date.

**18. Risk Management Plans**

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

**19. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.



**Final Permit-to-Install**  
BP-Husky Refining LLC  
**Permit Number:** P0110087  
**Facility ID:** 0448020007  
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## **B. Facility-Wide Terms and Conditions**



1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
  - a) None.
2. The following emissions unit contained in this permit is subject to 40 CFR Part 60 Subpart A, GGG, QQQ, and VV: P028. The complete NSPS requirements, including the NSPS General Provisions may be accessed via the internet from the electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gov> or by contacting the appropriate Ohio EPA district or local air agency.
3. The following emission unit contained in this permit is subject to 40 CFR Part 63 Subpart A and CC: P028, T153, T154, T156, and T157. The complete NSPS and MACT requirements, including the MACT General Provisions may be accessed via the internet from the electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gov> or by contacting the appropriate Ohio EPA district or local air agency.
4. On page 5 of PTI 04-708 issued on August 5, 1998 an emissions limit of 19.11 tons per year VOC is listed next to P030 (Foul Condensate Stripper). This PTI clarifies that no VOC emissions limit applies to P030 as was in the initial PTI 04-708 issued on December 20, 1995.



**Final Permit-to-Install**  
BP-Husky Refining LLC  
**Permit Number:** P0110087  
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## **C. Emissions Unit Terms and Conditions**



**1. P028, "A" Train Diesel Hydrotreater**

**Operations, Property and/or Equipment Description:**

"A" Train Diesel Hydrotreater with feed drum (MACT CC Group 1 Process Vent) emissions controlled by the East Hydrocarbon Flare.

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 04-708 as modified on 8/5/1998)	22.03 tons per year volatile organic compound (VOC) emissions (from equipment leaks)  See b)(2)a. and b.
b.	OAC rule 3745-21-09(T)	See b)(2)i.
c.	40 CFR Part 60, Subpart A (40 CFR 60.1 - 60.19)	40 CFR 40 Part A provides applicability provisions, definitions, and other general provisions that are pertinent to emissions units affected by 40 CFR Part 60.  See b)(2)c.
d.	40 CFR Part 60, Subpart GGG (40 CFR 60.590 – 60.593)  [In accordance with 40 CFR 60.590(a), this emissions unit is a process unit located at a petroleum refinery which has equipment defined by 40 CFR 60.591, and subject to the emissions limitations/control measures specified in this section]	See b)(2)h.
e.	40 CFR Part 60, Subpart QQQ (40 CFR 60.640- 60.699)  [In accordance with 40 CFR 60.690(a)(2), this emissions unit	See b)(2)d.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	is an individual drain system subject to the emission limitations/control measures specified in this section]	
f.	40 CFR Part 63, Subpart A (40 CFR 63.1 – 63.16)	Table 6 of 40 CFR Part 63, Subpart CC “General Provisions Applicability to Subpart CC provides applicability provisions, definitions, and other general provisions of 40 CFR Part 63, Subpart A that are applicable to this emissions unit.  See b)(2)e. and f.
g.	40 CFR Part 63, Subpart CC (40 CFR 63.640 - 63.657)  [In accordance with 40 CFR 63.640, this emissions unit is a petroleum refining process unit located at an existing major source of HAP emissions subject to the emissions limitations/control measures specified in this section.]	See b)(2)f. and g.

(2) Additional Terms and Conditions

- a. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-21-09(T) and 40 CFR Part 60, Subparts A, GGG, QQQ, and 40 CFR Part 63, Subpart CC.
- b. The annual emission limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop monitoring, record keeping and/or reporting requirements to ensure compliance with this limitation.
- c. The flare shall meet the requirements of 40 CFR 60.18 (c) through (f).
- d. In accordance with 40 CFR Part 60, Subpart QQQ, the permittee shall meet the individual drain system monitoring and record keeping program as outlined in the terms and conditions for emissions unit P025 (Refinery Wastewater System). This condition is in reference to the water drains in this emissions unit.
- e. 40 CFR Part 63, Subpart A provides applicability provisions, definitions, and other general provisions that are pertinent to emissions units affected by 40 CFR Part 63.
- f. Table 6 of 40 CFR Part 63, Subpart CC specifies the provisions of 40 CFR Part 63, Subpart A that apply and those that do not apply to permittees of emissions units subject to Subpart CC of 40 CFR Part 63.



- g. The permittee shall comply with the provisions of 40 CFR Part 60, Subpart VV. See 40 CFR 63.648 Equipment leak standards.
- h. Pursuant to 40 CFR 63.640(p)(1), equipment leaks that are subject to the provisions of both 40 CFR Part 60, Subpart GGG and 40 CFR Part 63, Subpart CC are required to comply only with the provisions specified in 40 CFR Part 63, Subpart CC. See 40 CFR 63.640(p).
- i. The permittee shall comply with the requirements for equipment leaks referencing OAC rule 3745-21-09(T).

[Note: Consistent with the U.S. EPA streamlining policy, the permittee may elect to demonstrate compliance with OAC rule 3745-21-09(T) by demonstrating compliance with the equipment leak standards in 40 CFR Part 63, Subpart CC for both equipment in organic HAP service and equipment not in organic HAP service. The MACT level monitoring of 40 CFR Part 63, Subpart CC is generally more stringent than the LDAR requirements of OAC rule 3745-21-09(T).]

c) Operational Restrictions

- (1) See 40 CFR Part 60, Subpart GGG (40 CFR 60.590 – 60.593).
- (2) See 40 CFR Part 60, Subpart QQQ (40 CFR 60.640 – 60.699).
- (3) See 40 CFR Part 60, Subpart VV (40 CFR 60.480 – 60.489).
- (4) See 40 CFR Part 63, Subpart A(40 CFR 63.1- 63.16).
- (5) See 40 CFR Part 63, Subpart CC (40 CFR 63.640 – 63.657).

d) Monitoring and/or Recordkeeping Requirements

- (1) See 40 CFR Part 60, Subpart GGG (40 CFR 60.590 – 60.593).
- (2) See 40 CFR Part 60, Subpart QQQ (40 CFR 60.640 – 60.699).
- (3) See 40 CFR Part 60, Subpart VV (40 CFR 60.480 – 60.489).
- (4) See 40 CFR Part 63, Subpart A(40 CFR 63.1- 63.16).
- (5) See 40 CFR Part 63, Subpart CC (40 CFR 63.640 – 63.657).
- (6) OAC 3745-21-07 and 3745-21-09(DD) provide equipment leak monitoring and record keeping for this refinery flare.

e) Reporting Requirements

- (1) See 40 CFR Part 60, Subpart GGG (40 CFR 60.590 – 60.593).
- (2) See 40 CFR Part 60, Subpart QQQ (40 CFR 60.640 – 60.699).



- (3) See 40 CFR Part 60, Subpart VV (40 CFR 60.480 – 60.489).
- (4) See 40 CFR Part 63, Subpart A(40 CFR 63.1- 63.16).
- (5) See 40 CFR Part 63, Subpart CC (40 CFR 63.640 – 63.657).
- (6) OAC 3745-21-07 and 3745-21-09(DD) provide reporting requirements for this refinery flare.

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:

Emission Limitation:

22.03 tons per year VOC emissions from equipment leaks

Applicable Compliance Method:

The leak detection and repair monitoring, record keeping and reporting requirements specified in sections d) and e) shall serve as demonstration of compliance with this emission limitation.

The emission limit of 22.03 tons per year VOC emissions from equipment leaks was determined by multiplying the total number of components by a leaking factor of 2% of the total components. This product is then multiplied by the corresponding leak screening value correlation, multiplied by 2.2 lbs/kg, multiplied by 8760 hours per year, and divided by 2000 pounds per ton to obtain the VOC emission rate in tons per year for each type of leaking component for a total of 22.03 tons per year VOC emissions from equipment leaks. The leak screening values are listed in tables 2-10 and 2-14 of *Protocol for Equipment Leak Emission Estimates* (EPA document 453/R-95-017 or subsequent updates).

- (2) See 40 CFR Part 60, Subpart GGG (40 CFR 60.590 – 60.593).
- (3) See 40 CFR Part 60, Subpart QQQ (40 CFR 60.640 – 60.699).
- (4) See 40 CFR Part 60, Subpart VV (40 CFR 60.480 – 60.489).
- (5) See 40 CFR Part 63, Subpart A(40 CFR 63.1- 63.16).
- (6) See 40 CFR Part 63, Subpart CC (40 CFR 63.640 – 63.657).
- (7) See ORC rule 3704.031 for the applicable testing requirements for this refinery flare.

g) Miscellaneous Requirements

- (1) None.



**2. Emissions Unit Group -P0110087 Tank Grp 2 21-09(L) FR: T153,T154,T156,T157,**

EU ID	Operations, Property and/or Equipment Description
T153	T153 is a 88,870 barrels fixed roof storage vessel identified as a tank number PR-500175. It is classified as a Group 2 storage vessel pursuant to 40 CFR 63.641.
T154	T154 is a 88,870 barrels fixed roof storage vessel identified as a tank number PR-500174. It is classified as a Group 2 storage vessel pursuant to 40 CFR 63.641.
T156	T156 is a 88,870 barrels fixed roof storage vessel identified as a tank number PR-500171. It is classified as a Group 2 storage vessel pursuant to 40 CFR 63.641.
T157	T157 is a 77,000 barrels fixed roof storage vessel identified as a tank number PR-500002. It is classified as a Group 2 storage vessel pursuant to 40 CFR 63.641.

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	Applicable only to T153, T154, and T156: Volatile Organic Compound (VOC) shall not exceed 7.49 tons per year.  Use of submerged fill  Applicable only to T157: Volatile Organic Compound (VOC) shall not exceed 5.63 tons per year.  Use of submerged fill
b.	OAC rule 3745-21-09(L)	See b)(2)a.
c.	40 CFR Part 63, Subpart A (40 CFR 63.1- 63.16)	Table 6 of 40 CFR Part 63, Subpart CC "General Provisions Applicability to Subpart CC provides applicability provisions, definitions, and other general provisions of 40 CFR Part 63, Subpart A that are applicable to this emissions unit.
d.	40 CFR Part 63, Subpart CC (40 CFR 63.640-656)	40 CFR 63, Subpart CC, establishes no emission limitation or control measures



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	[In accordance with 40 CFR 63.640(a), 63.640(c)(2) and 63.641, this emissions unit is subject to Subpart CC as a Group 2 storage vessel; it is associated with petroleum refining process units located at a plant site that is a major source as defined in section 112(a) of the Clean Air Act; and meets the definition of a Group 2 storage vessel as defined in 63.641.]	for Group 2 storage vessels.  See b)(2)b.

(2) Additional Terms and Conditions

- a. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid that, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute, unless the tank is equipped with an internal floating roof (or equivalent control approved by the Director) in accordance with the requirements of paragraph (L)(1) of OAC rule 3745-21-09 prior to storing a petroleum liquid with a higher vapor pressure.
  
- b. [63.640(m)]  
 If a change that does not meet the criteria in 63.640(l) is made to a petroleum refining process unit subject to 40 CFR Part 63 Subpart CC, and the change causes a Group 2 emission point to become a Group 1 emission point (as defined in 40 CFR Part 63.641), the permittee shall comply with the requirements of Subpart CC for existing emissions units for the Group 1 emission point as expeditiously as practicable, but in no event later than 3 years after the emission point becomes Group 1.
  - i. The permittee shall submit to the Director and Administrator for approval a compliance schedule, along with a justification for the schedule.
  - ii. The compliance schedule shall be submitted within 180 days after the change is made, unless the compliance schedule has been previously submitted to the permitting authority. If it is not possible to determine until after the change is implemented whether the emission point has become Group 1, the compliance schedule shall be submitted within 180 days of the date when the effect of the change is known to the source. The compliance schedule may be submitted in the next Periodic Report if the change is made after the date the Notification of Compliance Status report is due.
  - iii. The Administrator shall approve or deny the compliance schedule or request changes within 120 calendar days of receipt of the compliance



schedule and justification. Approval is automatic if not received from the Administrator within 120 calendar days of receipt.

c) Operational Restrictions

- (1) See 40 CFR Part 63, Subpart CC (40 CFR 63.640-656).

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain records of the following information:

- a. the types of petroleum liquids stored in the tank; and
- b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 psia.

These records 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) See 40 CFR Part 63, Subpart CC (40 CFR 63.640-656).

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

- (2) If the permittee places, stores, or holds, in the fixed roof tank, any petroleum liquid with a true vapor pressure that is greater than 1.52 pounds per square inch absolute and such tank does not comply with the requirements of paragraph (L)(1) of OAC rule 3745-21-09, the permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence. The date that such petroleum liquid was first stored in the tank, the date removed (if removed), the total gallons throughput of each petroleum liquid exceeding this vapor pressure, and the proposed method of compliance shall be included in the report.

- (3) See 40 CFR Part 63, Subpart CC (40 CFR 63.640-656).

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. Emission Limitation:

VOC emissions shall not exceed 10.13 tons per year.



**Final Permit-to-Install**  
BP-Husky Refining LLC  
**Permit Number:** P0110087  
**Facility ID:** 0448020007  
**Effective Date:** 2/18/2014

Applicable Compliance Method:

Compliance shall be determined by estimating emissions using the most recent version of EPA's Tanks computer software or the most recent emission factors contained in AP-42 Chapter 7, using the actual annual throughput and annual average vapor pressure.

- (2) See 40 CFR Part 63, Subpart CC (40 CFR 63.640-656).
- g) Miscellaneous Requirements
  - (1) None.