



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:  
Lazarus Gov.  
Center

**RE: DRAFT PERMIT TO INSTALL MODIFICATION  
ALLEN COUNTY  
Application No: 03-04991  
Fac ID: 0302020012**

**CERTIFIED MAIL**

**DATE: 1/31/2008**

Lima Refining Company  
Tom Jettinghoff  
1150 S. Metcalf Street  
Lima, OH 45804

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install modification for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit modification. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit modification should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install modification may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install modification a fee of **\$ 1125** will be due. Please do not submit any payment now.

The Ohio EPA is urging 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 Pollution Prevention at (614) 644-3469. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Permit Issuance and Data Management Section at (614) 644-3631.

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

NWDO

LIMA-ALLEN REG PLANNING COMM

IN

**ALLEN COUNTY**

**PUBLIC NOTICE**  
**ISSUANCE OF DRAFT PERMIT TO INSTALL 03-04991 FOR AN AIR CONTAMINANT SOURCE**  
**FOR Lima Refining Company**

On 1/31/2008 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Lima Refining Company**, located at **1150 South Metcalf Street, Lima, Ohio**.

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 03-04991:

**Modification to B026.**

Comments concerning this draft action, or a request for a public meeting, must be sent in writing to the address identified below no later than thirty (30) days from the date this notice is published. All inquiries concerning this draft action may be directed to the contact identified below.

Don Waltermeyer, Ohio EPA, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402 [(419)352-8461]



**Permit To Install  
Terms and Conditions**

**Issue Date: To be entered upon final issuance  
Effective Date: To be entered upon final issuance**

**DRAFT MODIFICATION OF PERMIT TO INSTALL 03-04991**

Application Number: 03-04991  
Facility ID: 0302020012  
Permit Fee: **To be entered upon final issuance**  
Name of Facility: Lima Refining Company  
Person to Contact: Tom Jettinghoff  
Address: 1150 S. Metcalf Street  
Lima, OH 45804

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**1150 South Metcalf Street  
Lima, Ohio**

Description of proposed emissions unit(s):  
**Modification to B026.**

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(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 included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

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Chris Korleski  
Director

**Lima Refining Company**  
**PTI Application: 03-04991**

**Facility ID: 0302020012**

**Issued: To be entered upon final issuance**

## **Part I - GENERAL TERMS AND CONDITIONS**

### **A. Permit to Install General Terms and Conditions**

#### **1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### **2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from 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 appropriate Ohio EPA District Office or local air agency. 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 (i.e., postmarked) 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.)

#### **3. Records Retention Requirements**

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### **4. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making

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**PTI Application: 03-04991**

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inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**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 of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. 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.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. 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 party shows good cause for any such extension.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the

**Lima Refining Company**  
**PTI Application: 03-04991**

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plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. 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 the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install 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.

**10. 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.

**11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of**

**Lima Refining Company**  
**PTI Application: 03-04991**  
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### **Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

#### **14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

#### **15. 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 this Permit to Install.

#### **B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

#### SUMMARY (for informational purposes only) TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	10.34
NO <sub>x</sub>	180.50
CO	114.36
VOC	7.49
SO <sub>2</sub>	48.09

**Lima Refining Company**

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**Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**

**A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

**Operations, Property, and/or Equipment - (B026) - refinery fuel gas or natural gas fired CE power boiler, 317 million Btu per hour maximum (PR 175007) - administrative modification of PTI No. 03-4991 issued on October 9, 1991 to increase allowable emissions of particulate, carbon monoxide, and volatile organic compounds due to AP-42 emission factor revisions; and increase allowable emissions of sulfur dioxide, due to revision of the heat content for refinery fuel gas burned in this emissions unit**

<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule
OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3)
40 CFR Part 60, Subpart Db	See section A.I.2.a
OAC rule 3745-31-05(A)(3)	2.36 lbs of particulate emissions (PE) per hour - see section A.I.2.b  0.13 lb of nitrogen oxides (NO <sub>x</sub> ) per million Btu of actual heat input  41.21 lbs of NO <sub>x</sub> per hour  26.11 lbs of carbon monoxide (CO) per hour - see section A.I.2.b  1.71 lbs of volatile organic compounds (VOC) per hour (See section A.I.2.b and A.I.2.c)  10.98 lbs of sulfur dioxide (SO <sub>2</sub> ) per hour  See section A.I.2.f
40 CFR Part 60, Subpart J	See section A.I.2.d
OAC rule 3745-14	See section A.I.2.e
40 CFR Part 63, Subpart DDDDD	See section A.I.2.g

40 CFR Part 63, Subpart A	See section A.I.2.h
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## 2. Additional Terms and Conditions

- 2.a** 40 CFR Part 60, Subpart Db is an applicable rule for this emissions unit, since the emissions unit was constructed after June 19, 1984 and the heat input capacity is greater than 100 million Btu per hour. However, none of the fuels listed in the rule are burned in this emissions unit. Therefore, the SO<sub>2</sub>, PE, visible particulate emissions, and NO<sub>x</sub> emission limitations listed in 40 CFR 60.42b, 60.43b and 60.44b are not applicable; and performance test methods, monitoring, record keeping and reporting requirements in 40 CFR 60.45b, 60.46b, 60.47b, 60.48b, 60.49b are also not applicable.
- 2.b** The PE, CO and VOC emission limitations are based on revised emission factors published in AP-42, Fifth Edition, Section 1.4 (July 1998).
- 2.c** The emission limitation of 1.71 lbs of VOC/hr includes fugitive VOC emissions.
- 2.d** The permittee shall not burn any refinery fuel gas in this emissions unit that contains hydrogen sulfide (H<sub>2</sub>S) in excess of 230 mg/dscm (0.10 grain/dscf)(the equivalent concentration is 162 parts per million by volume). This H<sub>2</sub>S standard in 40 CFR 60.104(a)(1) is also applicable if the permittee combines and combusts natural gas in any proportion with refinery fuel gas in this emissions unit, according to the fuel gas definition in 40 CFR 60.101(d).
- 2.e** This emissions unit is subject to the NO<sub>x</sub> budget trading program in OAC rule 3745-14. Refer to Part II - Specific Facility Terms and Conditions, section A.17, in the Title V permit minor modification with effective date of November 28, 2005 for applicable requirements.
- 2.f** The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), 3745-14 and 40 CFR 60.104(a)(1).
- 2.g** This emissions unit is subject to requirements of 40 CFR Part 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters. Refer to Part II - Specific Facility Terms and Conditions, section A.17, in the Title V permit minor modification with effective date of November 28, 2005 for applicable requirements.
- 2.h** Refer to Part II - Specific Facility Terms and Conditions, section A.10, in the Title V permit minor modification with effective date of November 28, 2005 for the requirements of 40 CFR Part 63, Subpart A; - National Emission Standards for Hazardous Air Pollutants - General Provisions.

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**II. Operational Restrictions**

1. The permittee shall burn only refinery fuel gas or natural gas in this emissions unit.

**III. Monitoring and/or Recordkeeping Requirements**

1. In order to demonstrate compliance with the emission limitation of 230 mg/dscm (0.10 grain/dscf)(the equivalent concentration is 162 parts per million by volume) of H<sub>2</sub>S in the refinery fuel gas (and if applicable, combined fuel firing as noted in A.1.2.d above), the permittee shall operate and maintain an instrument for continuously monitoring and recording the concentration (dry basis) of H<sub>2</sub>S in the refinery fuel gas or combined fuel stream before being burned in this emissions unit. The monitoring shall be conducted in accordance with 40 CFR 60.105(a)(4), as follows:
  - a. The span value for this instrument is 425 mg/dscm of H<sub>2</sub>S.
  - b. Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location, if monitoring at this location accurately represents the concentration of H<sub>2</sub>S in the fuel gas being burned.
  - c. The performance evaluations for this H<sub>2</sub>S monitor under 40 CFR 60.13(c) shall use Performance Specification 7 of 40 CFR 60, Appendix B. The permittee shall conduct an annual relative accuracy test audit (RATA) for the H<sub>2</sub>S continuous emission monitoring equipment. Method 11 of 40 CFR Part 60, Appendix A, or other approved U.S. EPA methods shall be used for conducting the annual RATAs.
2. A statement of certification of the existing H<sub>2</sub>S continuous emission monitoring system (CEMS) shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 7. Proof of certification shall be made available to representatives of the appropriate Ohio EPA District Office or local air agency upon request.
3. The permittee shall operate and maintain existing equipment to continuously monitor and record hydrogen sulfide from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the H<sub>2</sub>S CEMS including,

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but not limited to, parts per million of H<sub>2</sub>S on an instantaneous (1-minute) basis, emissions of H<sub>2</sub>S in units of the applicable standard (grain/dscf and parts per million by volume) as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.

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4. In order to demonstrate compliance with the emission limitation of 0.13 pound of NO<sub>x</sub> per million Btu of actual heat input, the permittee shall operate and maintain an instrument for continuously monitoring and recording NO<sub>x</sub> from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13, as follows:
  - a. The span value for this instrument is 500 parts per million of NO<sub>x</sub>.
  - b. The performance evaluations for this NO<sub>x</sub> monitor under 40 CFR 60.13(c) shall use Performance Specification 7 of 40 CFR Part 60, Appendix B. The permittee shall conduct an annual relative accuracy test audit (RATA) for the NO<sub>x</sub> continuous emission monitoring equipment. Method 7 of 40 CFR Part 60, Appendix A, or other approved U.S. EPA methods shall be used for conducting the annual RATAs.
5. A statement of certification of the existing continuous NO<sub>x</sub> monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 6. Proof of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.
6. The permittee shall maintain records of all data obtained by the continuous NO<sub>x</sub> monitoring system including, but not limited to, parts per million NO<sub>x</sub> on an instantaneous (one-minute) basis, emissions of NO<sub>x</sub> in units of the applicable standard in the appropriate averaging period (e.g., hourly, hourly rolling, 3-hour, daily, 30-day rolling, etc.), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.
7. The permittee shall maintain a written quality assurance/quality control plan for the CEMS designed to ensure continuous valid and representative readings of H<sub>2</sub>S and NO<sub>x</sub>. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. A logbook dedicated to the monitoring systems must be kept on site and available for inspection during regular office hours.
8. For each day during which the permittee burns a fuel other than refinery fuel gas or natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

**IV. Reporting Requirements**

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1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than refinery fuel gas or natural gas is burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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2. The permittee shall submit reports within thirty (30) days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting any H<sub>2</sub>S CEMS downtime while the emissions unit was on line (date, time, duration, and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of source and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included the quarterly report.
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) on a quarterly basis, in writing, of all rolling, 3-hour periods during which the average concentration of H<sub>2</sub>S as measured by the H<sub>2</sub>S CEMS under 40 CFR 60.105(a)(4) exceeds 230 mg/dscm (0.10 grain/dscf)(the equivalent concentration is 162 parts per million by volume). The rolling, 3-hour average shall be determined as the arithmetic average of three contiguous 1-hour averages. The notification shall include a copy of the record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during previous calendar quarters.
4. If there are no concentrations of H<sub>2</sub>S in the refinery fuel gas (or combined fuel stream, if applicable) greater than 230 mg/dscm (0.10 grain/dscf)(the equivalent concentration is 162 parts per million by volume) during the calendar quarter, then the permittee shall submit a statement to that effect along with the emissions unit and monitor operating times. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during previous calendar quarters.
5. The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NO<sub>x</sub> values in excess of the applicable limits specified in the terms and conditions of this permit. These reports shall also contain the total NO<sub>x</sub> emissions for the calendar quarter (in tons).
6. The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting any continuous NO<sub>x</sub> monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period

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Emissions Unit ID: B026

and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

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7. If there are no excess NO<sub>x</sub> emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

**V. Testing Requirements**

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

- a. Emission Limitation:

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

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the visible particulate emission limitation above in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9 and the requirements specified in OAC rule 3745-17-03(B)(1).

- b. Emission Limitation:

2.36 lbs of PE per hour

Applicable Compliance Method:

The permittee shall demonstrate compliance with this limitation by multiplying the maximum hourly refinery fuel gas or natural gas combustion rate, in million standard cubic feet per hour, by the appropriate particulate emission factor, in pound(s) per million standard cubic feet, from AP-42 Chapter 1.4 (7/98), and then dividing by the maximum heat input to the CE power boiler. If required, the permittee shall demonstrate compliance with this emission limitation by conducting emission testing in accordance with the requirements specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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BTL Application 00-01001

**Facility ID: 0302020012**

Emissions Unit ID: B026

c. Emission Limitation:

0.13 lb of NO<sub>x</sub> per million Btu of actual heat input

Emissions Unit ID: B026

## Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in sections A.III.4 and A.III.6 of this permit. If required, the permittee shall determine compliance with the NO<sub>x</sub> emission limitation by using Method 7 of 40 CFR Part 60, Appendix A, or other approved USEPA methods.

## d. Emission Limitation:

41.21 lbs of NO<sub>x</sub> per hour

## Applicable Compliance Method:

The emission limitation was developed by multiplying the limitation of 0.13 pound of NO<sub>x</sub> per million Btu by the maximum heat input of 317 million Btu per hour. If required, the permittee shall determine compliance with the NO<sub>x</sub> emission limitation by using Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A, or other approved USEPA methods.

## e. Emission Limitation:

26.11 lbs of CO per hour

## Applicable Compliance Method:

The permittee shall demonstrate compliance with this limitation by multiplying the maximum hourly refinery fuel gas or natural gas combustion rate, in million standard cubic feet per hour, by the appropriate carbon monoxide emission factor, in pound(s) per million standard cubic feet, from AP-42 Chapter 1.4 (7/98), and then dividing by the maximum heat input to the CE power boiler. If required, the permittee shall demonstrate compliance with this emission limitation by conducting emission testing in accordance with the requirements specified in Methods 1 through 4 and Method 10, 40 CFR Part 60, Appendix A.

## f. Emission Limitation:

1.71 lbs of VOC per hour

## Applicable Compliance Method:

The permittee shall demonstrate compliance with this limitation by multiplying the maximum hourly refinery fuel gas or natural gas combustion rate, in million standard cubic feet per hour, by the appropriate volatile organic compound emission factor, in pound(s) per million standard cubic feet, from AP-42 Chapter 1.4 (7/98), and then dividing by the maximum heat input to the CE power boiler. If required, the permittee shall demonstrate compliance with this emission

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limitation by conducting emission testing in accordance with the requirements specified in Methods 1 through 4 and Method 18, 25 or 25A of 40 CFR Part 60, Appendix A.

g. Emission Limitation:

10.98 lbs of SO<sub>2</sub> per hour

Applicable Compliance Method:

Compliance shall be based upon the monitoring and record keeping requirements specified in sections A.III.1 and A.III.3 for this emissions unit, based on use of CEM data for H<sub>2</sub>S. If required, the permittee shall demonstrate compliance with this emission limitation by conducting emission testing in accordance with the requirements specified in Method 6 of 40 CFR Part 60, Appendix A.

h. Emission Limitation:

230 mg/dscm (0.10 grain/dscf)(the equivalent concentration is 162 parts per million by volume) of H<sub>2</sub>S in the refinery fuel gas, or combined fuel stream if applicable

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in sections A.III.1 and A.III.3 of this permit. If required, the permittee shall determine compliance with the H<sub>2</sub>S emission limitation by using Method 11 of 40 CFR Part 60, Appendix A, or other approved USEPA methods.

**VI. Miscellaneous Requirements**

1. This PTI supercedes the terms and conditions for this emissions unit in PTI No. 03-4991 issued on October 9, 1991.

Issued: To be entered upon final issuance

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

**Operations, Property, and/or Equipment - (B026) - refinery fuel gas or natural gas fired CE power boiler, 317 million Btu per hour maximum (PR 175007) - administrative modification of PTI No. 03-4991 issued on October 9, 1991 to increase allowable emissions of particulate, carbon monoxide, and volatile organic compounds due to AP-42 emission factor revisions; and increase allowable emissions of sulfur dioxide, due to revision of the heat content for refinery fuel gas burned in this emissions unit**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

**Lima Refining Company**  
RTI Application 00-01001

**Facility ID: 0302020012**

Emissions Unit ID: B026

None

**NEW SOURCE REVIEW FORM B**

PTI Number: 03-04991 Facility ID: 0302020012

FACILITY NAME Lima Refining Company

FACILITY DESCRIPTION petroleum refinery CITY/TWP Lima

SIC CODE 2911 SCC CODE 3-06-001-06 EMISSIONS UNIT ID B026

EMISSIONS UNIT DESCRIPTION refinery fuel gas or natural gas fired CE power boiler, 317 million Btu per hour maximum

DATE INSTALLED December 1992

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	2.36 lbs/hr	10.34	2.36 lbs/hr	10.34
PM <sub>10</sub>					
Sulfur Dioxide	attainment	10.98 lbs/hr	48.09	10.98 lbs/hr	48.09
Organic Compounds	attainment	1.71 lbs/hr	7.49	1.71 lbs/hr	7.49
Nitrogen Oxides	attainment	0.13 lb/mmBtu and 41.21 lbs/hr	180.50	0.13 lb/mmBtu and 41.21 lbs/hr	180.50
Carbon Monoxide	attainment	26.11 lbs/hr	114.36	26.11 lbs/hr	114.36
Lead					
Other: Air Toxics					

## APPLICABLE FEDERAL RULES:

NSPS? Sub. J, Db NESHAP? Sub. A, DDDDD PSD? none OFFSET POLICY? none

## WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

compliance with the terms and conditions of this permit

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

\$

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*?

\_\_\_\_\_ YES

\_\_\_\_\_ NO

IDENTIFY THE AIR CONTAMINANTS: \_\_\_\_\_