Ohio Environmental Protection Agency

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director

6/15/2010

Certified Mail

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

William Patrie
Marathon Petroleum Company LLC - Canton Refinery
2408 Gambrinus Avenue SW
Canton, OH 44706

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL
Facility ID: 1576002006
Permit Number: P0103891
Permit Type: Administrative Modification
County: Stark

Dear Permit Holder:

Enclosed please find a final 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. Please complete a survey at 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 Kevin Boyce," 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

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. If you have any questions regarding this permit, please contact the Canton City Health Department. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern

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

Cc: U.S. EPA
Canton; Pennsylvania; West Virginia

50 West Town Street, Suite 700
P.O. Box 1049
Columbus, OH 43216-1049

614 | 644 3020
614 | 644 3184 (fax)
www.epa.ohio.gov

Ohio | Environmental Protection Agency

FINAL

Division of Air Pollution Control
Permit-to-Install
for
Marathon Petroleum Company LLC - Canton Refinery

Facility ID: 1576002006
Permit Number: P0103891
Permit Type: Administrative Modification
Issued: 6/15/2010
Effective: 6/15/2010

Ohio Environmental Protection Agency

Division of Air Pollution Control
Permit-to-Install
for
Marathon Petroleum Company LLC - Canton Refinery

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Authorization

Facility ID: 1576002006
Facility Description: Petroleum Refinery
Application Number(s): M0000242
Permit Number: P0103891
Permit Description: Administrative modification of PTI 15-01682 to incorporate new 40 CFR Part 60, Subparts Ja and GGGa requirements.
Permit Type: Administrative Modification
Permit Fee: $0.00
Issue Date: 6/15/2010
Effective Date: 6/15/2010

This document constitutes issuance to:

Marathon Petroleum Company LLC - Canton Refinery
2408 Gambrinus Avenue SW
Canton, OH 44706

of a Permit-to-Install 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:

Canton City Health Department
420 Market Avenue
Canton, OH 44702-1544
(330)489-3385

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

Chris Korleski
Director

Authorization (continued)

Permit Number: P0103891
Permit Description: Administrative modification of PTI 15-01682 to incorporate new 40 CFR Part 60, Subparts Ja and GGGa requirements.

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

Emissions Unit ID:	**B033**
Company Equipment ID:	ULSD Reactor Charge Heater
Superseded Permit Number:	15-01682
General Permit Category and Type:	Not Applicable

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) The permittee must comply with all terms and conditions of this permit. 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 Canton City Health Department.

(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 Canton City Health Department. 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 (i.e., postmarked) to the Canton City Health Department 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 Canton City Health Department 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) The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

b) 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.

c) 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.

d) The permittee shall submit progress reports to the Canton City Health Department 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 Canton City Health Department.

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 Canton City Health Department. 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.)

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).

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 party 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 Ohio EPA’s “Air Services” 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).

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.

No emissions unit certified by the authorized official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

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 the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be <u>obtained before</u> the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

13. Construction Compliance Certification

The applicant shall identify the following dates in the online 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 (i.e., postmarked), 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.

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) [OAC rule 3745-31-10(A)(1)]

   Before beginning actual construction of the new source review (NSR), the permittee shall document and maintain a record of the following information:

   (1) A description of the NSR project;

   (2) Identification of the emissions unit(s) whose emissions of a regulated NSR pollutant could be affected by the NSR project; and

   (3) A description of the applicability test used to determine that the NSR project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions, the projected actual emissions, the amount of "could have accommodated" emissions excluded under paragraph (AAAAA)(1)(c) of rule 3745-31-01 of the Administrative Code and an explanation for why such amount was excluded, and any netting calculations, if applicable.

   b) [OAC rule 3745-31-10(A)(2)]

   The information required in OAC rule 3745-31-10(A)(2) was documented and submitted to the Ohio EPA within the Permit to Install application for the ULSD Project.

   c) [OAC rule 3745-31-10(A)(3)]

   The permittee shall calculate the NO_X and SO_2 emissions from the emissions units affected by the ULSD Project (i.e. B023, B028, B029, B033, P011, and P016) as identified in the permit to install application and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 5 years following resumption of regular operations after the change.

   d) [OAC rule 3745-31-10(A)(5)]

   The permittee shall submit a report to the director if the annual emissions, in tons per year as calculated pursuant to OAC rule 3745-31-10(A)(3), from the ULSD Project, exceed 82.38 tons of NO_X per year and 52.76 tons of SO_2 per year (i.e., the baseline actual emissions increase by a significant amount) and if such emissions differ from the preconstruction projection as documented and maintained pursuant to OAC rule 3745-31-10(A)(1). Such reports shall be submitted to the director within 60 days after the end of such year. The report shall contain the following:

   (1) The name, address, and telephone number of the major stationary source; and

   (2) The annual emissions as calculated pursuant to OAC rule 3745-31-10(A)(3).

C. Emissions Unit Terms and Conditions

1. B033, ULSD Reactor Charge Heater

Operations, Property and/or Equipment Description:

Ultra Low Sulfur Diesel (ULSD) Reactor Charge Heater (55 MMBtu/hr) equipped with low-NO_X burners and the associated ULSD process fugitive components [Administrative Modification m1]

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 operations(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. 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)	4.53 lbs CO/hr; and 19.8 tons CO/yr See b)(2)a. through b)(2)c.
b.	ORC 3704.03(T)(4)	See b)(2)d.
c.	OAC rule 3745-31-05(F) Voluntary restriction to avoid BAT	9.9 tons NO_X/yr; and 0.025 lb SO_2/MMBtu of actual heat input See b)(2)e. and c)(1)
d.	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input
e.	OAC rule 3745-17-07(A)	20% opacity as a 6-minute average, except as provided by rule.
f.	OAC rule 3745-18-82(E)(2)	The 1.0 lb SO_2/MMBtu emissions limitation established in this rule is less stringent than the 0.025 lb of SO_2/MMBtu emissions limitation established pursuant to OAC rule 3745-31-05(F).
g.	OAC rule 3745-21-09(T) 40 CFR Part 63, Subpart CC (40 CFR 63.640-679) 40 CFR Part 60, Subpart GGGa (40 CFR 60.590a-593a)	The permittee's plant-wide Leak Detection and Repair (LDAR) program shall comply with the requirements of OAC rule 3745-21-09(T), 40 CFR Part 63, Subpart CC, and 40 CFR Part 60, Subpart GGGa.
h.	40 CFR Part 60, Subpart Ja (40 CFR 60.100a-109a) [In accordance with 40 CFR 60.102a(g) and 60.107a(c)(6), this emissions unit is defined as a process heater (fuel gas combustion device in a petroleum	The permittee shall not burn any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3-hour rolling average basis, and H_2S in excess of 60 ppmv determined daily on a 365 successive calendar day rolling average basis. [40 CFR 60.102a(g)(1)(ii)] See b)(2)f.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	refinery) with a rated capacity of greater than 40 MMBtu/hr and less than 100 MMBtu/hr, equipped with low-NO_X burners, for which construction commenced after May 14, 2007.]	The permittee shall not discharge to the atmosphere any emissions of NO_X in excess of 40 ppmv (dry basis, corrected to 0% excess air) on a 24-hour rolling average basis. [40 CFR 60.102a(g)(2)] See b)(2)g.
i.	40 CFR Part 60, Subpart A (40 CFR 60.1-19)	General Provisions See b)(2)h.
j.	40 CFR Part 63, Subpart A (40 CFR 63.1-16)	General Provisions See c)(2)

(2) Additional Terms and Conditions

a. The lbs/hr and tons/yr emissions limitations for CO are based on potential to emit. Therefore, no additional monitoring, record keeping or reporting requirements are necessary to ensure compliance with these emissions limitations.

b. The requirements of this rule also include compliance with the requirements of the following rules: OAC rule 3745-21-08(B), OAC rule 3745-31-05(F), and 40 CFR Part 60, Subpart Ja for the ULSD Reactor Charge Heater portion of emissions unit B033 and 40 CFR Part 63, Subpart CC and 40 CFR Part 60, Subpart GGGa for the associated ULSD process fugitive components portion of emissions unit B033.

c. BAT for the control of fugitive VOC emissions from the associated components of emissions unit B033 shall be satisfied through implementation of and compliance with the permittee's approved Leak Detection and Repair (LDAR) Program.

d. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate emissions (PE) from this air contaminant source since the calculated annual emissions rate for PE is less than 10 tons/yr taking into account the federally enforceable rule limit of 0.020 lb of PE/MMBtu of actual heat input under OAC rule 3745-17-10(B)(1).

e. Permit to Install P0103891 for this air contaminant source takes into account the voluntary emissions limitations as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):

i. 9.9 tons NO_X/yr; and

ii. 0.025 lb SO_2/MMBtu of actual heat input.

f. For each fuel gas combustion device subject to 40 CFR Part 60, Subpart Ja, the permittee shall comply with either the emission limit in paragraph 60.102a(g)(1)(i) or (g)(1)(ii).

g. Pursuant to 40 CFR Part 60, Subpart Ja, Section 60.107a(c)(6), the permittee is not subject to the monitoring requirements in sections 60.107a(c)(1) through (5).

h. The application and enforcement of the provisions of the New Source Review Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency (US EPA), 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency (Ohio EPA).

c) Operational Restrictions

(1) The permittee shall burn only refinery fuel gas, natural gas, and/or landfill gas in this emissions unit. Hereinafter, this mixture of fuel gases shall be referred to as "refinery fuel gas". The sulfur content of the refinery fuel gas burned in this emissions unit shall comply with the allowable emissions limitation of 0.025 lb SO_2/MMBtu of actual heat input.

(2) The permittee shall comply with the applicable operation and maintenance requirements pursuant to 40 CFR Part 63, Subpart A:

Section 63.6(e)	minimizing emissions, including periods of startup, shutdown, and malfunction

(3) The permittee shall comply with the applicable work practice standards required pursuant to 40 CFR Part 60, Subpart Ja:

Section 60.103a(b)	root cause analysis of SO_2 emissions in excess of 500 lbs/day

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall comply with the applicable monitoring and recordkeeping requirements pursuant to 40 CFR Part 60, Subpart Ja:

Section 60.107a(a)(2)	continuous monitoring of H_2S fuel gas concentration
Section 60.107a(c)(6)	NO_X biennial performance tests
Section 60.108a(c)(6)	records of SO_2 discharges greater than 500 lbs/day

(2) A statement of certification of the existing H_2S continuous monitoring system shall be maintained on site and shall consist of a letter from 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 the Director of Ohio EPA and the Canton City Health Department, Air Pollution Control Division upon request.

(3) The permittee shall maintain records of all data obtained by the H_2S continuous monitoring system including, but not limited to, H_2S in units of ppmv as a rolling, 3-hour average, H_2S in units of ppmv determined daily on a 365 successive calendar day rolling average basis, the results of daily zero/span calibration checks, and the magnitude of manual calibration adjustments.

(4) The permittee shall maintain the written quality assurance/quality control plan for the continuous monitoring system that is designed to ensure continuous valid and representative readings of H_2S. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. Records for the monitoring system must be kept on site and available for inspection during regular office hours.

(5) The permittee shall collect samples, at least three times per week, of the refinery fuel gas for gas chromatographic analysis. The permittee shall collect refinery fuel gas samples using procedures that will ensure that sample containers are adequately purged prior to sample collection, thereby, ensuring a representative fuel gas sample. The permittee shall maintain a copy of the sampling procedures on site.

(6) The permittee shall maintain weekly records of the actual heating value of the average weekly refinery fuel gas as burned in this emissions unit. The actual heating value (H), in Btu per scf, of the refinery fuel gas shall be calculated as follows from the results of a weekly refinery fuel gas compositional analysis using gas chromatography:

$$H = \sum(h_i \times m_i)$$

where:
h_i = the higher heating value (HHV) of each chemical compound detected in the refinery fuel gas, in Btu per pound of chemical, as found in the most recent edition of the Gas Processors Supplies Association (GPSA) manual; and
m_i = the mass fraction of each chemical compound detected in the refinery fuel gas using chromatographic analysis.

(7) The permittee shall use one of the following methods to conduct the compositional analysis of the refinery fuel gas samples: ASTM D1945-96, ASTM D1945-96 (Wasson Modification), or GPA Method 2261-90.

When using the Wasson Modification of ASTM Method D1945-96, the permittee shall follow, at a minimum, QA/QC requirements specified in ASTM D1945-96. The permittee shall also operate and maintain the Wasson gas chromatographic instrumentation according to the manufacturer's specifications and recommendations. Alternative, equivalent methods may be used upon written approval by the Director of Ohio EPA and Canton City Health Department, Air Pollution Control Division.

(8) The permittee shall maintain monthly records of the amount of gas, in dscf of gas, used as fuel in this emissions unit, and the average monthly Higher Heating Value (HHV) for each gas used as fuel in Btu/dscf of gas burned.

(9) For each day during which the permittee burns a fuel other than refinery fuel gas, the permittee shall maintain a record of the type, quantity, sulfur content (in pound of sulfur per MMdscf) and heating value (in Btu/dscf) of the fuel burned.

(10) The permittee shall calculate and maintain records of total NO_X emissions, in tons per year, from this emissions unit.

(11) The permittee shall maintain records of each weekly average of the sulfur dioxide mass emission rate, in pounds per MMBtu, discharged from this emissions unit calculated as follows:

SO_2 mass emission rate = [(weekly average H_2S concentration, in ppmv) x (1 scf H_2S/ $1x10^6$ ppmv) x (1 mole H_2S/379 scf H_2S) x (1 mole SO_2/mole H_2S) x (64 lbs SO_2/mole SO_2)] / (weekly average recorded heating value of the refinery fuel gas)

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. each day when a fuel other than refinery fuel gas is burned in this emissions unit; and

b. all instances of emissions in excess of any applicable limit specified in section C.1.b)(1) of this permit, including:

i. the date that the exceedance occurred;

ii. an explanation of the exceedance;

iii. the duration of the exceedance;

iv. whether the exceedance was concurrent with a startup, shutdown, or malfunction of an affected facility or control system; and

v. a description of the corrective action taken, if any, and the root cause analysis, if applicable.

The quarterly reports shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following the end of each calendar quarter (January 30th, April 30th, July 30th, and October 30th).

(2) The permittee shall comply with the applicable reporting requirements pursuant to 40 CFR Part 60, Subpart Ja:

Section 60.108a(d)	excess emissions reports

(3) The permittee shall comply with the applicable notification requirements pursuant to 40 CFR Part 60, Subpart A:

Section 60.7(a)(1)	date construction commenced
Section 60.7(a)(3)	date of initial startup
Section 60.8(d)	date of performance testing

Notifications are to be sent to:

Ohio Environmental Protection Agency DAPC – Permit Management Unit P.O. Box 163669 Columbus, Ohio 43216-3669	and	Canton City Health Department Division of Air Pollution Control 420 Market Avenue, North Canton, Ohio 44702

f) Testing Requirements

(1) Compliance with the emissions limitations in section C.1.b)(1) of this permit shall be determined in accordance with the following methods:

a. Emissions Limitations:

4.53 lbs CO/hr
19.8 tons CO/yr

Applicable Compliance Methods:

CO compliance is shown by the following calculations:

CO emission factor = 84 lbs/mmscf (AP-42, Table 1.4-1)
Average natural gas higher heating value = 1020 Btu/scf (AP-42, Table 1.4-1, footnote a)

$$\text{lbs CO/hr} = \frac{\text{maximum hourly heat capacity x 84 lbs/mmscf}}{\text{1020 Btu/scf}}$$

If required, compliance with the lbs CO/hr emission limitation shall be determined through emission testing in accordance with Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

Compliance with the annual CO emission limitation shall be assumed provided compliance is maintained with the lbs CO/hr emission limitation (i.e., the annual emission limitation was established by multiplying the lbs/hr emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton).

b. Emissions Limitation:

0.025 lb SO_2/MMBtu

Applicable Compliance Method:

SO_2 compliance is demonstrated through the use of the monitoring and record keeping requirements specified in section C.1.d).

c. Emissions Limitation:

0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:

If required, compliance shall be determined through emission testing in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A.

d. Emissions Limitation:

20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A.

e. Emissions Limitation:
f.9 tons NO_X/yr

Applicable Compliance Method:

NO_X compliance is shown by the following calculations:

Multiply the results of from the most recent stack test, in lbs NO_X/MMBtu, by the average monthly HHV for the gas burned by the total amount of gas burned per month and convert to lbs NO_X per month and tons per year for the previous 12 month period.

f. Emissions Limitation:

The permittee shall not discharge to the atmosphere any emissions of NO_X in excess of 40 ppmv (dry basis, corrected to 0% excess air) on a 24-hour rolling average basis.

Applicable Compliance Method:

The permittee shall determine compliance according to the methods required by 40 CFR Part 60, Subpart Ja:

Section 60.104a(i)	NO_X performance tests

g. Emissions Limitation:

The permittee shall not burn any fuel gas that contains H_2S in excess of 162 ppmv determined hourly on a 3-hour rolling average basis, and H_2S in excess of 60 ppmv determined daily on a 365 successive calendar day rolling average basis.

Applicable Compliance Method:

The permittee shall determine compliance according to the methods required by 40 CFR Part 60, Subpart Ja:

Section 60.104a(j)	H_2S performance tests

g) Miscellaneous Requirements

(1) None.