

Synthetic Minor Determination and/or **Netting Determination**

Permit To Install: "15-01634"

A. Source Description

The source includes two(2) 250 MMBtu/hr. Natural gas/refinery gas/landfill gas fired boilers. These emissions units are new units being installed to replace several existing, aging and in-efficient units.

B. Facility Emissions and Attainment Status

The Marathon Petroleum Company(MPC) operates a refinery operation in Canton, Stark county, Ohio. This facility emits varying amounts of all criteria pollutants and several HAPs. The facility is major for Title V and NSR for all criteria pollutants and major for several HAPs including benzene. The HAPs are regulated under 40 CFR Part 63 Subpart CC and UUU. Stark county is in non-attainment for the 8-hour ozone standard and PM2.5.

C. Source Emissions

The source to be installed will emit all criteria pollutants to some degree. CO, NOx and SOx could potentially exceed NSR thresholds. The company has therefore requested PTE synthetic minor restrictions on the operation of both emissions units of 99.6 tpy, 39.6 tpy and 39.6 tpy, respectively, on these parameters to keep them under NSR thresholds.

D. Conclusion

No NSR is required.

See the PTI application for emissions units B031 and B032 prepared for Marathon Petroleum Co.(MPC) by Trinity Consultants dated May, 2006 for the synthetic minor discussion including calculations. The discussion provided in the application was reviewed and accepted by the Canton LAA.



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

RE: DRAFT PERMIT TO INSTALL

STARK COUNTY

Application No: 15-01634

Fac ID: 1576000301

CERTIFIED MAIL

	TOXIC REVIEW
	PSD
X	SYNTHETIC MINOR
	CEMS
40 CFR PART 63, SUBPART DDDDD	MACT
40 CFR Part 60, Subpart Db and Subpart J	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

DATE: 11/30/2006

Marathon Petroleum Company LLC, Canton
Brent McNeese
2408 Gambrinus Avenue SW
Canton, OH 44706

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. 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 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 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 a fee of **\$2000** 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, Field Operations & Permit Section at (614) 644-3631.

Sincerely,

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

CC: USEPA

Canton LAA

Stark County Area Trans Study

WV

PA

STARK COUNTY

PUBLIC NOTICE

**ISSUANCE OF DRAFT PERMIT TO INSTALL 15-01634 FOR AN AIR CONTAMINANT SOURCE FOR
Marathon Petroleum Company LLC, Canton**

On 11/30/2006 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Marathon Petroleum Company LLC, Canton**, located at **2408 Gambrinus Avenue SW, Canton, Ohio**.

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 15-01634:

Installation of two 250 mmBtu/hr. RFG, NG, and refinery gas fueled boilers to replace three gas and oil fired boilers.

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.

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



DRAFT PERMIT TO INSTALL 15-01634

Application Number: 15-01634
Facility ID: 1576000301
Permit Fee: **To be entered upon final issuance**
Name of Facility: Marathon Petroleum Company LLC, Canton
Person to Contact: Brent McNeese
Address: 2408 Gambrinus Avenue SW
Canton, OH 44706

Location of proposed air contaminant source(s) [emissions unit(s)]:
**2408 Gambrinus Avenue SW
Canton, Ohio**

Description of proposed emissions unit(s):
Installation of two 250 mmBtu/hr. RFG, NG, and refinery gas fueled boilers to replace three gas and oil fired boilers.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) 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 above described 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

Director

Part I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Permit-To-Install General Terms and Conditions

1. Monitoring and Related Recordkeeping 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:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. 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:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. 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 appropriate Ohio EPA District Office or local air agency. 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 B.9 below if no deviations occurred during the quarter.

- iii. 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 appropriate Ohio EPA District Office or local air agency 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.
 - iv. If this permit is for an emissions unit located at a Title V facility, then 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.

2. 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 appropriate Ohio EPA District Office or local air agency 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).

3. 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.

4. 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.

5. Severability Clause

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.

6. 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.

7. 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.

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Marathon Petroleum Company LLC, Canton

PTI Application: 15-01634

Issued: To be entered upon final issuance

Facility ID: 15760003

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any 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. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

- a. 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:
 - i. 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.
 - ii. 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.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. 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 appropriate Ohio EPA District Office or local air agency 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:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.

- ii. 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.

10. Permit-To-Operate Application

- a. If 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 obtained before 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).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this permit is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 source(s) covered by this permit.

11. 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.

12. 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.

13. Permit-To-Install

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

B. State Only Enforceable Permit-To-Install General Terms and Conditions

1. Compliance Requirements

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.

2. 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 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 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 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. 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.

4. Authorization To Install or Modify

If applicable, authorization to install or modify any new or existing 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 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.

5. Construction of New Sources(s)

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.

6. 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.

7. 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).

8. Construction Compliance Certification

If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) 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.

9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

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

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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.

C. 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>
Sulfur Dioxide	39.6
Nitrogen Oxides	39.6
Carbon Monoxide	99.6
PE/PM10	14.6
VOC	10.6

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 - (B031) - 250 MMBTU/hr. rated heat input(HHV) RFG, NG, and refinery gas fired boiler.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	0.034 lb SO ₂ /MMBTU 1.35 lbs VOC/hour 20.6 lbs CO/hour The requirements of this rule also include compliance with the requirements of OAC rules 3745-18-06(B), 3745-21-08(B), 3745-21-07(B), and OAC rule 3745-31-05(C).
OAC rule 3745-31-05(C)	39.6 tons SO ₂ /year as a rolling, 12-month summation of emissions from emissions units B031 and B032. 39.6 tons NO _x /year as a rolling, 12-month summation of emissions from emissions units B031 and B032. 99.6 tons CO/year as a rolling, 12-month summation of emissions from emissions units B031 and B032. 14.6 tons PE/PM ₁₀ /year based on a rolling, 12-month summation of heat input to emissions units B031 and B032. 10.6 tons VOC/year based on a rolling, 12-month summation of heat input to emissions units B031 and B032. See section A.I.2.a.
OAC rule 3745-17-07(A)(1)	20% opacity as a 6-minute average, except as provided by rule.
OAC rule 3745-17-10(B)(1)	0.20 lbs PE per MMBTU of actual heat input
40 CFR Part 63, Subpart DDDDD	400 ppm CO on a 3-day rolling average (on a dry basis corrected to three (3) percent oxygen)
40 CFR Part 60, Subpart Db	0.20 lb NO _x /MMBTU based on a 30-day rolling average.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
40 CFR Part 60.1014(a)(1) (Subpart J)	See section A.I.2.c and A.I.2.d.

2. Additional Terms and Conditions

- 2.a** Synthetic minor limits were established at the request of MPC to restrict the total CO, SO₂, NO_x, PM/PM₁₀, and VOC annual emissions from both emissions units B030 and B031.
- 2.b** 40 CFR Part 60.43b(h)(5)
Emission units B030 and B031 are exempt from the PM/PM₁₀ and opacity limitations specified in 40 CFR Part 60, Subpart Db because the potential SO_x emission rates from firing refinery fuel gas are less than 0.32 lbs/MMBTU.
- 2.c** The permittee shall not burn refinery fuel gas containing hydrogen sulfide (H₂S) in excess of 0.10 grain H₂S per dscf of refinery fuel gas.
- 2.d** 40 CFR Part 60.40b(c)
Affected facilities as defined under 40 CFR Part 60, Subpart Db, which includes these emissions units, and, which also meet the applicability requirements of 40 CFR Part 60, subpart J are subject to the sulfur dioxide standards under 40 CFR Part 60, subpart J (subpart 60.104).
- 2.e** The permittee shall comply with all applicable sections of 40 CFR Part 60 and Part 63, Subpart A as specified in Subpart Db and Table 10 of Subpart DDDDD, respectively.
- 2.f** The application and enforcement of the provisions of the New Source Review Performance Standards(NSPS), as promulgated by the United States Environmental Protection Agency(U.S. EPA), 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency(Ohio EPA).
- 2.g** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3).

II. Operational Restrictions

1. The permittee shall burn only a mixture of refinery fuel gas, natural gas, and/or landfill gas in this emission 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 SO₂ emission limitation specified in section A.I.

2. All refinery fuel gas burned in this emissions unit shall be supplied from the south fuel drum area.
3. The permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices, at all times, including periods of startup, shutdown, and malfunction, for minimizing emissions. During a period of startup, shutdown, or malfunction, this general duty to minimize emissions requires that the permittee reduce emissions from the affected source to the greatest extent which is consistent with safety and good air pollution control practices. The general duty to minimize emissions during a period of startup, shutdown, or malfunction does not require the permittee to achieve emission levels that would be required by the applicable standard at other times if this is not consistent with safety and good air pollution control practices, nor does it require the permittee to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including the startup, shutdown, and malfunction plan required in 40 CFR Part 60.6(e)(3), review of operation and maintenance records, and inspection of the source.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall continuously sample and analyze the refinery fuel gas for hydrogen sulfide content using the H₂S CEMS required in section A.III.2 and maintain records of the analytical results.
2. The permittee shall operate and maintain existing equipment to continuously monitor and record the concentrations of H₂S in the refinery fuel gas burned in this emissions unit, in units of ppm. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13. The span value for this instrument shall be 425 mg H₂S/dscm.
3. A statement of certification of the existing H₂S 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 Canton City Health Department, Air Pollution Control Division upon request.
4. The permittee shall maintain records of all data obtained by the H₂S CEMS including, but not limited to, parts per million (ppm) of H₂S, ppm of H₂S as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.
5. The permittee shall maintain the written quality assurance/quality control plan for the CEMS that is designed to ensure continuous valid and representative readings of H₂S.

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.

6. 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.
7. The permittee shall maintain daily records of the actual heating value of the 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 daily refinery fuel gas compositional analysis using gas chromatography:

$H = \text{summation of } (h_i \times m_i)$

m_i = the mass fraction of each chemical compound detected in the refinery fuel gas using chromatographic analysis; and

h_i = the higher heating value 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 Engineering data manual.

8. 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)

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 Canton City Health Department, Air Pollution Control Division.

9. The permittee shall maintain daily records of each calculated, rolling, 3-hour average of the sulfur dioxide emission rate, in pounds per MMBTU, discharged from this emissions unit. The sulfur dioxide emission rate shall be calculated as follows:

$$\frac{[(\text{Rolling, 3-hour average H}_2\text{S concentration, in ppmv}) \times (1 \text{ scf H}_2\text{S}/1 \times 10^6 \text{ ppmv}) \times (1 \text{ mole H}_2\text{S}/379 \text{ scf H}_2\text{S}) \times (1 \text{ mole SO}_2/\text{mole H}_2\text{S}) \times (64 \text{ pounds of SO}_2/\text{mole SO}_2)]}{(\text{daily recorded heating value of the refinery fuel gas})} = \text{sulfur dioxide mass emission rate.}$$

10. 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.

11. [40 CFR Part 60.48b(b)(1)]
The permittee shall install, calibrate, maintain, and operate a continuous monitoring system and record the output of the system, for measuring NO_x emissions.
12. Prior to the installation of the continuous NO_x monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix, Performance Specification 2 for approval by the Ohio EPA, Central Office.

Within 60 days of the effective date of this permit, the permittee shall conduct certification tests of such equipment pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 2. Personnel from the Canton local air agency shall be notified at least 30 days in advance and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Canton local air agency within 30 days after the test is completed. Certification of the continuous NO_x monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 2.

13. [40 CFR Part 60.48b(c)]
The permittee shall operate and maintain monitoring equipment to continuously monitor and record NO_x from this emission unit in units of 1-hour average ppmv except for continuous monitoring system(CMS) bread downs and repairs. The permittee shall maintain records of all data obtained by the continuous NO_x monitoring system which includes results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.
14. [40 CFR Part 60.48b(e) and 40 CFR Part 60.48b(d)]
The procedures under 40 CFR Part 60.13 shall be followed for installation, evaluation, and operation of the continuous NO_x monitoring systems. The 1-hour average NO_x emission rates measured by the NO_x CMS, as required under 40 CFR Part 60.13(h), shall be expressed in pounds of NO_x/MMBTU heat input(HHV) on a 30-day rolling average. The 1-hour averages shall be calculated using the data points required under 40 CFR Part 60.13(h)(2). The span value for NO_x is 5 ppmv.
15. [40 CFR Part 60.48b(f)]
When NO_x emission data are not obtained because of CMS breakdowns, repairs, calibration checks, and zero/span adjustments, emission data shall be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 % of the operating hours in each operating day, in at least 22 out of 30 successive operating days.
16. [40 CFR Part 60.49b(d)]
The permittee shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor for each fuel. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

17. [40 CFR Part 60.49b(g)]
The permittee shall maintain records of the following information for each boiler operating day:
 - a. Calendar date;
 - b. The average hourly NO_x emission rates (expressed in NO₂) in lbs/MMBTU heat input measured or predicted;
 - c. The 30-day average NO_x emission rates, in lbs/MMBTU, calculated at the end of each operating day from the measured or predicted hourly NO_x emission rates for the preceding 30 operating days;
 - d. Identification of the operating days when the calculated 30-day average NO_x emission rates are in excess of the NO_x emissions standards in section A.I.1 with the reasons for not obtaining sufficient data and a description of corrective actions taken;
 - e. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
 - f. Identification of the "F" factor used for calculations, method of determination and type of fuel combusted;
 - g. Identification of the times when the pollutant concentration exceeded full span of the CMS;
 - h. Description of any modifications to the CMS that could affect the ability of the CMS to comply with performance specification 2; and
 - i. Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1.
 - j. Results of all cylinder gas audits, daily zero/span calibration checks, and the magnitude of manual calibration adjustments, the results of all RATA tests, the date, time, and hours of operation of the emission unit and the CEMS.
18. The permittee shall develop a written quality assurance/quality control (QA/QC) plan for the NO_x CMS designed to ensure continuous valid and representative readings of NO_x emissions in units of the applicable standard. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The QA/QC plan and a log book dedicated to the continuous NO_x monitoring system must be kept on site and available for inspection during regular office hours.
19. The permittee shall operate and maintain equipment to continuously monitor and record CO from this emissions unit in units of ppmv and lbs/hr. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Parts 60.13.

The permittee shall maintain records of all data obtained by the CO CMS including, but not limited to: ppmv CO on a one-minute, dry basis corrected to 3 % oxygen and lbs/hr on a 3-day rolling average, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments. The permittee shall continuously monitor CO according to 40 CFR Part 63.7525(a) and 63.7535 and maintain CO levels in compliance with section A.1 of these terms and conditions at all times except during periods of Startup, Shutdown, and Malfunction (SSM) and when the boilers are operating at less than 50 % rated capacity.

20. Prior to the installation of the CO CMS, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix A, Performance Specifications 4A for approval by the Ohio EPA, Central Office.

Within 60 days of the effective date of this permit, the permittee shall conduct certification tests of such equipment pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specifications 4A. Personnel from the Canton local air agency shall be notified at least 30 days in advance and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Canton local air agency within 30 days after the test is completed. Certification of the CO CMS shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 4A

21. [40 CFR Part 63.7525(a)(3 - 6)]
The CO CEM must complete a minimum of one cycle of operation for each successive 15-minute period. The CEM data must be reduced as specified in 40 CFR Part 63.8(g)(2). The permittee must calculate and record a 30-day rolling average emission rate on a daily basis. A new 30-day rolling average emission rate is calculated as the average of all hourly CO emission data for the preceding 30 operating days. When calculating averages, the permittee must not use data recorded during periods of monitoring malfunctions, associated repairs, out-of-control periods, required quality assurance or control activities, or when the emissions unit is operating at less than 50 percent of its rated capacity. The permittee must use all the data collected during all other periods in assessing compliance. Any period for which the monitoring system is out of control and data are not available for required calculations constitutes a deviation from the monitoring requirements.
22. [40 CFR Part 63.7505(d)]
The permittee shall also develop and submit to the Administrator of the US EPA and the Canton local air agency for approval a site-specific monitoring plan that addresses the following at least 60 days before the permittee's initial performance evaluation of the CMS:

- a. Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of the control of the exhaust emissions (e.g., on or downstream of the last control device);
 - b. Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer,, and the data collection and reduction system; and
 - c. performance evaluation procedures and acceptance criteria (e.g., calibrations).
 - d. The permittee shall address the following in the site-specific plan developed as specified in section A.III.20:
 - i. Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Part 63.8(c)(1), (c)(3), and (c)(4)(ii); and
 - ii. Ongoing data quality assurance procedures in accordance with the general requirements in 40 CFR Part 63.8(d);
 - iii. Ongoing record keeping procedures in the general requirements of 40 CFR Part 63.10(c), (e)(1), and (e)(2)(i).
 - e. The permittee shall conduct a performance evaluation of the CO CMS and operate and maintain the CO CMS in accordance with the approved site-specific monitoring plan.
23. [40 CFR Part 63.7505(d)]
The permittee shall develop a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in 40 CFR Part 63.6(e)(3).
24. The permittee shall develop a written QA/QC plan for the CO CMS designed to ensure continuous valid and representative readings of CO and shall include the QA/QC procedures addressed in the site-specific monitoring plan specified in section A.III.22. The plan shall follow the requirements of 40 CFR part 60, Appendix F. The plan and a logbook dedicated to the CO CMS must be kept on site and available for inspection during regular office hours.
25. [40 CFR Part 63.7555(a)]
The permittee shall maintain the following records:
- a. A copy of each notification and report submitted for compliance including any supporting documentation for the initial notification or subsequent notifications of compliance status or semiannual compliance reports.

- b. All records related to SSM specified in section 40 CFR Part 63.6(e)(3)(iii) thru (v).
 - c. Records described in 40 CFR Part 63.10(b)(2)(vi) through (xi).
 - d. Previous versions of the performance evaluation plan as required in section 40 CFR Part 63.8(d)(3).
 - e. Requests for alternatives to relative accuracy tests for CEMS as required in 40 CFR Part 63.8(f)(6)(i).
 - f. Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of SSM or during another period.
 - g. Records of monthly fuel use by each boiler including the type and amount used [40 CFR Part 63.7555(d)(1) and (2)]
26. The permittee shall calculate and maintain records of a rolling, 12 month summation of total SO_x, NO_x VOC, PM/PM₁₀, and CO from both boilers B030 and B031.
27. [40 CFR Part 63.10(b)(1)]
- a. Records shall be maintained in a form suitable and available for review according to 40 CFR Part 63.10(b)(1) for a period of at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
 - b. Records must be kept onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each rolling, 3-hour average SO₂ emission rate, as calculated in section A.III.9, that exceeds the SO₂ emission limitation of 0.025 pound of SO₂ per MMBTU of actual heat input for the burning of refinery fuel gas.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than refinery fuel gas is burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Canton City Health Department, Air Pollution Control Division documenting any H₂S 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 in the quarterly report.

4. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit H₂S concentration reports within 30 days following the end of each calendar quarter to the Canton City Health Department, Air Pollution Control Division. These reports shall contain the date, commencement and completion times, and durations of all instances of rolling, 3-hour H₂S concentrations in excess of the 0.10 gr/dscf limitation, and the corrective actions taken (if any). If there are no concentrations of H₂S in the refinery fuel gas greater than the value specified in section A.I.2 during the calendar quarter, then the permittee shall submit a statement to that effect.
5. [40 CFR Part 60.49b(a)]
The permittee shall submit notification of the date of initial startup, as provided in 40 CFR Part 60.7. This notification shall include:
 - a. The design heat input capacity of the affected facility and identification of the fuels to be combusted in the boilers;
 - b. A copy of any federally enforceable requirement that limits the annual capacity factor for any fuel, if applicable; and
 - c. The annual capacity factor at which the permittee anticipates operating the boilers based on fuels fired and based on each individual fuel fired.
6. The permittee shall submit to the Administrator of the US EPA and the Canton local air agency the performance test data from the initial performance test and the performance evaluation of the CEMS using Performance Specification 2 for NO_x and PS 4A for CO. The permittee shall also submit the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the boiler.
7. Pursuant to 40 CFR Part 60.49b(h), and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit an excess emission report for any excess emissions which occurred during the reporting period within 30 days following the end of each calendar quarter to the Canton local air agency. Excess emissions are defined as any calculated or measured 30-day rolling average of NO_x emission rate as determined under 40 CFR Part 60.48(b)(e) or 3-day rolling average of CO (on a dry basis corrected to 3 % Oxygen) emission rate which exceeds the applicable emission limits in section A.I.1. This report shall document the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of CO or NO_x excess emissions. These reports shall also contain the total CO and NO_x emissions for the calendar quarter (in tons).
8. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Canton local air agency documenting any CO or NO_x CMS downtime while the emissions unit was online (date, time, duration, and reason) along with any corrective actions taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective actions taken for each time

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Issued: To be entered upon final issuance

Facility ID: 15760003
Emissions Unit ID: B031

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 online shall also be included in the quarterly report.

9. If there are no excess 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 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 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.
10. The permittee shall address ongoing reporting procedures in the general requirements of 40 CFR Part 63.10(c), (e)(1), and (e)(2)(i). in the site-specific plan developed as specified in section A.III.21 for the CO CMS.
11. [40 CFR Part 63.7550(b), (c), (f) and (g)]
The permittee shall submit compliance and SSM reports as specified in 40 CFR Part 63, Subpart DDDDD, Table 9 and in accordance with sections 40 CFR Part 63.7550(b), (c), (f) and (g).
12. The permittee shall submit quarterly deviation (excursion) reports that identify rolling, 12-month summation of emissions in tpy of SO_x, NO_x, CO, VOC, or PM/PM₁₀ from both emissions units B031 and B032.
13. Pursuant to the NSPS, the permittee is required to report the following information at the appropriate times (if the information has not already been reported):
 - a. construction date (no later than 30 days after such date);
 - b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
 - c. actual start-up date (within 15 days after such date); and,
 - d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to the appropriate local air agency or District Office and to:

Ohio Environmental Protection Agency
DAPC - Permit Issuance Unit
P.O. Box 1049
Columbus, Ohio 43215

V. Testing Requirements

1. The permittee shall demonstrate compliance with the limitations in section A.I. of these terms and conditions in accordance with the following methods:
 - a. Emission Limitation:

0.034 lbs SO₂/MMBTU

Applicable Compliance Method:

The permittee shall demonstrate compliance by the use of the monitoring and record keeping requirements specified in section A.III.9.
 - b. Emission Limitation:

1.35 lbs VOC/hour

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by US EPA Method 25 or 25A, 40 CFR Part 60, Appendix A.
 - c. Emission Limitation:

20.6 lbs CO/hour

Applicable Compliance Method:

The permittee shall demonstrate compliance shall be demonstrated by the monitoring and record keeping requirements specified in section A.III.19.
 - d. Emission Limitation:

39.6 tons SO₂/year as a rolling, 12 month summation of emissions from emission units B030 and B031.
39.6 tons NO_x/year as a rolling, 12 month summation of emissions from emission units B030 and B031.

99.6 tons CO/year as a rolling, 12 month summation of emissions from emission units B030 and B031.

14.6 tons PM/PM₁₀/year based on a rolling, 12 month summation of heat input to emission units B030 and B031.

10.6 tons VOC/year based on a rolling, 12 month summation of heat input to emission units B030 and B031.

Applicable Control Method:

The permittee shall demonstrate compliance shall be demonstrated by the monitoring and record keeping requirements specified in section A.III.26.

e. Emission Limitation:

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

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by US EPA Method 9, 40 CFR Part 60, Appendix A.

f. Emission Limitation:

0.20 lbs PE per MMBTU of actual heat input

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using US EPA Methods 1 - 4 and 5 or an approved alternative, 40 CFR Part 60, Appendix A.

g. Emission Limitation:

400 ppm CO on a 3-day rolling average (on a dry basis corrected to three (3) percent oxygen)

Applicable Compliance Method:

The permittee shall demonstrate compliance by the use of the monitoring and record keeping requirements specified in section A.III.19.

h. Emission Limitation:

0.20 lbs NOx/MMBTU based on a 30-day rolling average.

Applicable Compliance Method:

The permittee shall demonstrate compliance by the use of the monitoring and record keeping requirements specified in section A.III.11.

i. Emission Limitation:

The permittee shall not burn refinery fuel gas containing hydrogen sulfide in excess of 0.10 grains H₂S per dscf of refinery fuel gas.

Applicable Compliance Method:

The permittee shall demonstrate compliance by the use of the monitoring and record keeping requirements specified in section A.III.4.

2. Initial Compliance Demonstration

- a. [40 CFR Part 60.46b(e)(1)]
The initial compliance test shall be conducted by monitoring NO_x for 30 successive operating days. The 30-day average emission rate is used to determine compliance. The 30-day average emission rate is calculated as the average of all hourly emissions data recorded by the monitoring system during the 30-day period.
- b. [40 CFR Part 60.46b(e)(4)]
Subsequent compliance tests shall be conducted, upon request, shall be conducted through the use of the 30-day performance test in accordance with 40 CFR Part 60, Subpart Db and those applicable sections of Subpart A. During periods when performance tests are not requested, NO_x emissions data collected pursuant to 40 CFR Part 60.48b(g)(1) are used to calculate a 30-day rolling average emission rate on a daily basis and used to prepare excess emission reports, but will not be used to determine compliance with the NO_x emission standards. A new 30-day rolling average emission rate is calculated each operating day as the average of all of the hourly NO_x emission data for the preceding 30 operating days.
- c. [40 CFR Part 63.7506(g)]
The permittee shall demonstrate initial compliance with the emission limitations in section A.I.1 no later than 180 days after startup of the emission unit. The initial compliance demonstration consists of conducting a performance evaluation of the CO CEMS in accordance with 40 CFR Part 63.7525(a), 40 CFR Part 63.7520, and 40 CFR Part 63, Subpart DDDDD, Table 5, Item 5.

VI. Miscellaneous Requirements

None

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 - (B031) - 250 MMbtu/hr. rated heat input(HHV) RFG, NG, and refinery gas fired boiler.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	None

2. **Additional Terms and Conditions**

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

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

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.

Add rows as necessary

Operations, Property, and/or Equipment - (B032) - 250 MMBtu/hr. rated heat input(HHV) RFG, NG, and refinery gas fired boiler.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	0.034 lb SO ₂ /MMBTU 1.35 lbs VOC/hour 20.6 lbs CO/hour The requirements of this rule also include compliance with the requirements of OAC rules 3745-18-06(B), 3745-21-08(B), 3745-21-07(B), and OAC rule 3745-31-05(C).
OAC rule 3745-31-05(C)	39.6 tons SO ₂ /year as a rolling, 12-month summation of emissions from emissions units B031 and B032. 39.6 tons NO _x /year as a rolling, 12-month summation of emissions from emissions units B031 and B032. 99.6 tons CO/year as a rolling, 12-month summation of emissions from emissions units B031 and B032. 14.6 tons PE/PM ₁₀ /year based on a rolling, 12-month summation of heat input to emissions units B031 and B032. 10.6 tons VOC/year based on a rolling, 12-month summation of heat input to emissions units B031 and B032. See section A.I.2.a.
OAC rule 3745-17-07(A)(1)	20% opacity as a 6-minute average, except as provided by rule.
OAC rule 3745-17-10(B)(1)	0.20 lbs PE per MMBTU of actual heat input
40 CFR Part 63, Subpart DDDDD	400 ppm CO on a 3-day rolling average (on a dry basis corrected to three (3) percent oxygen)
40 CFR Part 60, Subpart Db	0.20 lb NO _x /MMBTU based on a 30-day rolling average.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
40 CFR Part 60.1014(a)(1) (Subpart J)	See section A.I.2.c and A.I.2.d.

2. Additional Terms and Conditions

- 2.a** Synthetic minor limits were established at the request of MPC to restrict the total CO, SO₂, NO_x, PM/PM₁₀, and VOC annual emissions from both emissions units B030 and B031.
- 2.b** 40 CFR Part 60.43b(h)(5)
Emission units B030 and B031 are exempt from the PM/PM₁₀ and opacity limitations specified in 40 CFR Part 60, Subpart Db because the potential SO_x emission rates from firing refinery fuel gas are less than 0.32 lbs/MMBTU.
- 2.c** The permittee shall not burn refinery fuel gas containing hydrogen sulfide (H₂S) in excess of 0.10 grain H₂S per dscf of refinery fuel gas.
- 2.d** 40 CFR Part 60.40b(c)
Affected facilities as defined under 40 CFR Part 60, Subpart Db, which includes these emissions units, and, which also meet the applicability requirements of 40 CFR Part 60, subpart J are subject to the sulfur dioxide standards under 40 CFR Part 60, subpart J (subpart 60.104).
- 2.e** The permittee shall comply with all applicable sections of 40 CFR Part 60 and Part 63, Subpart A as specified in Subpart Db and Table 10 of Subpart DDDDD, respectively.
- 2.f** The application and enforcement of the provisions of the New Source Review Performance Standards(NSPS), as promulgated by the United States Environmental Protection Agency(U.S. EPA), 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency(Ohio EPA).
- 2.g** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3).

II. Operational Restrictions

1. The permittee shall burn only a mixture of refinery fuel gas, natural gas, and/or landfill gas in this emission 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 SO₂ emission limitation specified in section A.I.

2. All refinery fuel gas burned in this emissions unit shall be supplied from the south fuel drum area.
3. The permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices, at all times, including periods of startup, shutdown, and malfunction, for minimizing emissions. During a period of startup, shutdown, or malfunction, this general duty to minimize emissions requires that the permittee reduce emissions from the affected source to the greatest extent which is consistent with safety and good air pollution control practices. The general duty to minimize emissions during a period of startup, shutdown, or malfunction does not require the permittee to achieve emission levels that would be required by the applicable standard at other times if this is not consistent with safety and good air pollution control practices, nor does it require the permittee to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including the startup, shutdown, and malfunction plan required in 40 CFR Part 60.6(e)(3), review of operation and maintenance records, and inspection of the source.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall continuously sample and analyze the refinery fuel gas for hydrogen sulfide content using the H₂S CEMS required in section A.III.2 and maintain records of the analytical results.
2. The permittee shall operate and maintain existing equipment to continuously monitor and record the concentrations of H₂S in the refinery fuel gas burned in this emissions unit, in units of ppm. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13. The span value for this instrument shall be 425 mg H₂S/dscm.
3. A statement of certification of the existing H₂S 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 Canton City Health Department, Air Pollution Control Division upon request.
4. The permittee shall maintain records of all data obtained by the H₂S CEMS including, but not limited to, parts per million (ppm) of H₂S, ppm of H₂S as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.
5. The permittee shall maintain the written quality assurance/quality control plan for the CEMS that is designed to ensure continuous valid and representative readings of H₂S. 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.

6. 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.
7. The permittee shall maintain daily records of the actual heating value of the 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 daily refinery fuel gas compositional analysis using gas chromatography:

H = summation of (hi x mi)

mi = the mass fraction of each chemical compound detected in the refinery fuel gas using chromatographic analysis; and

hi = the higher heating value 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 Engineering data manual.

8. 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)

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 Canton City Health Department, Air Pollution Control Division.

9. The permittee shall maintain daily records of each calculated, rolling, 3-hour average of the sulfur dioxide emission rate, in pounds per MMBTU, discharged from this emissions unit. The sulfur dioxide emission rate shall be calculated as follows:

$$\frac{[(\text{Rolling, 3-hour average H}_2\text{S concentration, in ppmv}) \times (1 \text{ scf H}_2\text{S}/1 \times 10^6 \text{ ppmv}) \times (1 \text{ mole H}_2\text{S}/379 \text{ scf H}_2\text{S}) \times (1 \text{ mole SO}_2/\text{mole H}_2\text{S}) \times (64 \text{ pounds of SO}_2/\text{mole SO}_2)]}{(\text{daily recorded heating value of the refinery fuel gas})} = \text{sulfur dioxide mass emission rate.}$$

10. 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.
11. [40 CFR Part 60.48b(b)(1)]
The permittee shall install, calibrate, maintain, and operate a continuous monitoring system and record the output of the system, for measuring NO_x emissions.

12. Prior to the installation of the continuous NOx monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix, Performance Specification 2 for approval by the Ohio EPA, Central Office.

Within 60 days of the effective date of this permit, the permittee shall conduct certification tests of such equipment pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 2. Personnel from the Canton local air agency shall be notified at least 30 days in advance and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Canton local air agency within 30 days after the test is completed. Certification of the continuous NOx monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 2.

13. [40 CFR Part 60.48b(c)]
The permittee shall operate and maintain monitoring equipment to continuously monitor and record NOx from this emission unit in units of 1-hour average ppmv except for continuous monitoring system(CMS) bread downs and repairs. The permittee shall maintain records of all data obtained by the continuous NOx monitoring system which includes results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.
14. [40 CFR Part 60.48b(e) and 40 CFR Part 60.48b(d)]
The procedures under 40 CFR Part 60.13 shall be followed for installation, evaluation, and operation of the continuous NOx monitoring systems. The 1-hour average NOx emission rates measured by the NOx CMS, as required under 40 CFR Part 60.13(h), shall be expressed in pounds of NOx/MMBTU heat input(HHV) on a 30-day rolling average. The 1-hour averages shall be calculated using the data points required under 40 CFR Part 60.13(h)(2). The span value for NOx is 5 ppmv.
15. [40 CFR Part 60.48b(f)]
When NOx emission data are not obtained because of CMS breakdowns, repairs, calibration checks, and zero/span adjustments, emission data shall be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 % of the operating hours in each operating day, in at least 22 out of 30 successive operating days.

16. [40 CFR Part 60.49b(d)]

The permittee shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor for each fuel. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.
17. [40 CFR Part 60.49b(g)]

The permittee shall maintain records of the following information for each boiler operating day:

 - a. Calendar date;
 - b. The average hourly NO_x emission rates (expressed in NO₂) in lbs/MMBTU heat input measured or predicted;
 - c. The 30-day average NO_x emission rates, in lbs/MMBTU, calculated at the end of each operating day from the measured or predicted hourly NO_x emission rates for the preceding 30 operating days;
 - d. Identification of the operating days when the calculated 30-day average NO_x emission rates are in excess of the NO_x emissions standards in section A.I.1 with the reasons for not obtaining sufficient data and a description of corrective actions taken;
 - e. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
 - f. Identification of the "F" factor used for calculations, method of determination and type of fuel combusted;
 - g. Identification of the times when the pollutant concentration exceeded full span of the CMS;
 - h. Description of any modifications to the CMS that could affect the ability of the CMS to comply with performance specification 2; and
 - i. Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1.
 - j. Results of all cylinder gas audits, daily zero/span calibration checks, and the magnitude of manual calibration adjustments, the results of all RATA tests, the date, time, and hours of operation of the emission unit and the CEMS.
18. The permittee shall develop a written quality assurance/quality control (QA/QC) plan for the NO_x CMS designed to ensure continuous valid and representative readings of NO_x emissions in units of the applicable standard. The plan shall follow the requirements of 40

CFR Part 60, Appendix F. The QA/QC plan and a log book dedicated to the continuous NOx monitoring system must be kept on site and available for inspection during regular office hours.

19. The permittee shall operate and maintain equipment to continuously monitor and record CO from this emissions unit in units of ppmv and lbs/hr. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Parts 60.13. The permittee shall maintain records of all data obtained by the CO CMS including, but not limited to: ppmv CO on a one-minute, dry basis corrected to 3 % oxygen and lbs/hr on a 3-day rolling average, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments. The permittee shall continuously monitor CO according to 40 CFR Part 63.7525(a) and 63.7535 and maintain CO levels in compliance with section A.1 of these terms and conditions at all times except during periods of Startup, Shutdown, and Malfunction (SSM) and when the boilers are operating at less than 50 % rated capacity.
20. Prior to the installation of the CO CMS, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix A, Performance Specifications 4A for approval by the Ohio EPA, Central Office.

Within 60 days of the effective date of this permit, the permittee shall conduct certification tests of such equipment pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specifications 4A. Personnel from the Canton local air agency shall be notified at least 30 days in advance and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Canton local air agency within 30 days after the test is completed. Certification of the CO CMS shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 4A

21. [40 CFR Part 63.7525(a)(3 - 6)]
The CO CEM must complete a minimum of one cycle of operation for each successive 15-minute period. The CEM data must be reduced as specified in 40 CFR Part 63.8(g)(2). The permittee must calculate and record a 30-day rolling average emission rate on a daily basis. A new 30-day rolling average emission rate is calculated as the average of all hourly CO emission data for the preceding 30 operating days. When calculating averages, the permittee must not use data recorded during periods of monitoring malfunctions, associated repairs, out-of-control periods, required quality assurance or control activities, or when the emissions unit is operating at less than 50 percent of its rated capacity. The permittee must use all the data collected during all other periods in assessing compliance. Any period for which the monitoring system is out of control and data are not available for required calculations constitutes a deviation from the monitoring requirements.
22. [40 CFR Part 63.7505(d)]
The permittee shall also develop and submit to the Administrator of the US EPA and the Canton local air agency for approval a site-specific monitoring plan that addresses the following at least 60 days before the permittee's initial performance evaluation of the CMS:

- a. Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of the control of the exhaust emissions (e.g., on or downstream of the last control device);
 - b. Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and
 - c. performance evaluation procedures and acceptance criteria (e.g., calibrations).
 - d. The permittee shall address the following in the site-specific plan developed as specified in section A.III.20:
 - i. Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Part 63.8(c)(1), (c)(3), and (c)(4)(ii); and
 - ii. Ongoing data quality assurance procedures in accordance with the general requirements in 40 CFR Part 63.8(d);
 - iii. Ongoing record keeping procedures in the general requirements of 40 CFR Part 63.10(c), (e)(1), and (e)(2)(i).
 - e. The permittee shall conduct a performance evaluation of the CO CMS and operate and maintain the CO CMS in accordance with the approved site-specific monitoring plan.
23. [40 CFR Part 63.7505(d)]
The permittee shall develop a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in 40 CFR Part 63.6(e)(3).
24. The permittee shall develop a written QA/QC plan for the CO CMS designed to ensure continuous valid and representative readings of CO and shall include the QA/QC procedures addressed in the site-specific monitoring plan specified in section A.III.22. The plan shall follow the requirements of 40 CFR part 60, Appendix F. The plan and a logbook dedicated to the CO CMS must be kept on site and available for inspection during regular office hours.
25. [40 CFR Part 63.7555(a)]
The permittee shall maintain the following records:
- a. A copy of each notification and report submitted for compliance including any supporting documentation for the initial notification or subsequent notifications of compliance status or semiannual compliance reports.
 - b. All records related to SSM specified in section 40 CFR Part 63.6(e)(3)(iii) thru (v).
 - c. Records described in 40 CFR Part 63.10(b)(2)(vi) through (xi).

- d. Previous versions of the performance evaluation plan as required in section 40 CFR Part 63.8(d)(3).
 - e. Requests for alternatives to relative accuracy tests for CEMS as required in 40 CFR Part 63.8(f)(6)(i).
 - f. Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of SSM or during another period.
 - g. Records of monthly fuel use by each boiler including the type and amount used [40 CFR Part 63.7555(d)(1) and (2)]
26. The permittee shall calculate and maintain records of a rolling, 12 month summation of total SO_x, NO_x VOC, PM/PM₁₀, and CO from both boilers B030 and B031.
27. [40 CFR Part 63.10(b)(1)]
- a. Records shall be maintained in a form suitable and available for review according to 40 CFR Part 63.10(b)(1) for a period of at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
 - b. Records must be kept onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each rolling, 3-hour average SO₂ emission rate, as calculated in section A.III.9, that exceeds the SO₂ emission limitation of 0.025 pound of SO₂ per MMBTU of actual heat input for the burning of refinery fuel gas.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than refinery fuel gas is burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Canton City Health Department, Air Pollution Control Division documenting any H₂S 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 in the quarterly report.
4. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit H₂S concentration reports within 30 days following the end of each calendar quarter to the Canton City Health Department, Air Pollution Control Division. These reports shall contain the date, commencement and completion times, and durations of all instances of rolling, 3-hour H₂S

concentrations in excess of the 0.10 gr/dscf limitation, and the corrective actions taken (if any). If there are no concentrations of H₂S in the refinery fuel gas greater than the value specified in section A.I.2 during the calendar quarter, then the permittee shall submit a statement to that effect.

5. [40 CFR Part 60.49b(a)]
The permittee shall submit notification of the date of initial startup, as provided in 40 CFR Part 60.7. This notification shall include:
 - a. The design heat input capacity of the affected facility and identification of the fuels to be combusted in the boilers;
 - b. A copy of any federally enforceable requirement that limits the annual capacity factor for any fuel, if applicable; and
 - c. The annual capacity factor at which the permittee anticipates operating the boilers based on fuels fired and based on each individual fuel fired.
6. The permittee shall submit to the Administrator of the US EPA and the Canton local air agency the performance test data from the initial performance test and the performance evaluation of the CEMS using Performance Specification 2 for NO_x and PS 4A for CO. The permittee shall also submit the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the boiler.
7. Pursuant to 40 CFR Part 60.49b(h), and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit an excess emission report for any excess emissions which occurred during the reporting period within 30 days following the end of each calendar quarter to the Canton local air agency. Excess emissions are defined as any calculated or measured 30-day rolling average of NO_x emission rate as determined under 40 CFR Part 60.48(b)(e) or 3-day rolling average of CO (on a dry basis corrected to 3 % Oxygen) emission rate which exceeds the applicable emission limits in section A.I.1. This report shall document the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of CO or NO_x excess emissions. These reports shall also contain the total CO and NO_x emissions for the calendar quarter (in tons).
8. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Canton local air agency documenting any CO or NO_x CMS downtime while the emissions unit was online (date, time, duration, and reason) along with any corrective actions taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective actions 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 online shall also be included in the quarterly report.
9. If there are no excess 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 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 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.

10. The permittee shall address ongoing reporting procedures in the general requirements of 40 CFR Part 63.10(c), (e)(1), and (e)(2)(i). in the site-specific plan developed as specified in section A.III.21 for the CO CMS.
11. [40 CFR Part 63.7550(b), (c), (f) and (g)]
The permittee shall submit compliance and SSM reports as specified in 40 CFR Part 63, Subpart DDDDD, Table 9 and in accordance with sections 40 CFR Part 63.7550(b), (c), (f) and (g).
12. The permittee shall submit quarterly deviation (excursion) reports that identify rolling, 12-month summation of emissions in tpy of SO_x, NO_x, CO, VOC, or PM/PM10 from both emissions units B031 and B032.
13. Pursuant to the NSPS, the permittee is required to report the following information at the appropriate times (if the information has not already been reported):
 - a. construction date (no later than 30 days after such date);
 - b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
 - c. actual start-up date (within 15 days after such date); and,
 - d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to the appropriate local air agency or District Office and to:

Ohio Environmental Protection Agency
DAPC - Permit Issuance Unit
P.O. Box 1049
Columbus, Ohio 43215

V. Testing Requirements

1. The permittee shall demonstrate compliance with the limitations in section A.I. of these terms and conditions in accordance with the following methods:
 - a. Emission Limitation:

0.034 lbs SO₂/MMBTU

Applicable Compliance Method:

The permittee shall demonstrate compliance by the use of the monitoring and record keeping requirements specified in section A.III.9.

b. Emission Limitation:

1.35 lbs VOC/hour

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by US EPA Method 25 or 25A, 40 CFR Part 60, Appendix A.

c. Emission Limitation:

20.6 lbs CO/hour

Applicable Compliance Method:

The permittee shall demonstrate compliance shall be demonstrated by the monitoring and record keeping requirements specified in section A.III.19.

d. Emission Limitation:

39.6 tons SO₂/year as a rolling, 12 month summation of emissions from emission units B030 and B031.

39.6 tons NO_x/year as a rolling, 12 month summation of emissions from emission units B030 and B031.

99.6 tons CO/year as a rolling, 12 month summation of emissions from emission units B030 and B031.

14.6 tons PM/PM₁₀/year based on a rolling, 12 month summation of heat input to emission units B030 and B031.

10.6 tons VOC/year based on a rolling, 12 month summation of heat input to emission units B030 and B031.

Applicable Control Method:

The permittee shall demonstrate compliance shall be demonstrated by the monitoring and record keeping requirements specified in section A.III.26.

e. Emission Limitation:

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

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by US EPA Method 9, 40 CFR Part 60, Appendix A.

f. Emission Limitation:

0.20 lbs PE per MMBTU of actual heat input

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using US EPA Methods 1 - 4 and 5 or an approved alternative, 40 CFR Part 60, Appendix A.

g. Emission Limitation:

400 ppm CO on a 3-day rolling average (on a dry basis corrected to three (3) percent oxygen)

Applicable Compliance Method:

The permittee shall demonstrate compliance by the use of the monitoring and record keeping requirements specified in section A.III.19.

h. Emission Limitation:

0.20 lbs NO_x/MMBTU based on a 30-day rolling average.

Applicable Compliance Method:

The permittee shall demonstrate compliance by the use of the monitoring and record keeping requirements specified in section A.III.11.

i. Emission Limitation:

The permittee shall not burn refinery fuel gas containing hydrogen sulfide in excess of 0.10 grains H₂S per dscf of refinery fuel gas.

Applicable Compliance Method:

The permittee shall demonstrate compliance by the use of the monitoring and record keeping requirements specified in section A.III.4.

2. Initial Compliance Demonstration

- a. [40 CFR Part 60.46b(e)(1)]
The initial compliance test shall be conducted by monitoring NOx for 30 successive operating days. The 30-day average emission rate is used to determine compliance. The 30-day average emission rate is calculated as the average of all hourly emissions data recorded by the monitoring system during the 30-day period.
- b. [40 CFR Part 60.46b(e)(4)]
Subsequent compliance tests shall be conducted, upon request, shall be conducted through the use of the 30-day performance test in accordance with 40 CFR Part 60, Subpart Db and those applicable sections of Subpart A. During periods when performance tests are not requested, NOx emissions data collected pursuant to 40 CFR Part 60.48b(g)(1) are used to calculate a 30-day rolling average emission rate on a daily basis and used to prepare excess emission reports, but will not be used to determine compliance with the NOx emission standards. A new 30-day rolling average emission rate is calculated each operating day as the average of all of the hourly NOx emission data for the preceding 30 operating days.
- c. [40 CFR Part 63.7506(g)]
The permittee shall demonstrate initial compliance with the emission limitations in section A.I.1 no later than 180 days after startup of the emission unit. The initial compliance demonstration consists of conducting a performance evaluation of the CO CEMS in accordance with 40 CFR Part 63.7525(a), 40 CFR Part 63.7520, and 40 CFR Part 63, Subpart DDDDD, Table 5, Item 5.

VI. Miscellaneous Requirements

None

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 - (B032) - 250 MMbtu/hr. rated heat input (HHV) RFG, NG, and refinery fuel gas fired boiler

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	None

2. **Additional Terms and Conditions**

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None