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

05/01/02

CERTIFIED MAIL

RE: Draft Title V Chapter 3745-77 permit

15-76-00-0301
Marathon Ashland Petroleum LLC, Canton Refinery
Craig E Johnson
2408 Gambrinus Avenue SW
Canton, OH 44706

Dear Craig E Johnson:

You are hereby notified that the Ohio Environmental Protection Agency has prepared the enclosed draft of the Title V permit for the facility referenced above. The purpose of this draft is to solicit public comments. A public notice concerning the draft will appear in the Ohio EPA Weekly Review and the major newspaper in the county where the facility is located. Comments and/or a request for a public hearing from the public and any affected parties will be accepted by Canton Division of Air Pollution Control within 30 days of the date of publication in the newspaper. You will be notified in writing if a public hearing is scheduled.

A decision on processing the Title V permit will be made after consideration of written public comments and oral testimony (if a public hearing is conducted). After the comment period, you will be provided with a Preliminary Proposed Title V permit and an opportunity to comment prior to the Proposed Title V permit submittal to USEPA.

If you have any questions or comments concerning this draft Title V permit, please contact Canton Division of Air Pollution Control.

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA (electronically submitted)
File, DAPC PMU
Canton Division of Air Pollution Control
Pennsylvania
West Virginia

State of Ohio Environmental Protection Agency

DRAFT TITLE V PERMIT

Issue Date: 05/01/02	Effective Date: To be entered upon final issuance	Expiration Date: To be entered upon final issuance

This document constitutes issuance of a Title V permit for Facility ID: 15-76-00-0301 to:
Marathon Ashland Petroleum LLC, Canton Refinery
2408 Gambrinus Avenue SW
Canton, OH 44706

Emissions Unit ID (Company ID)/Emissions Unit Activity Description

B015 (Crude Heater)
Crude Heater 4-0-B-6; Refinery Fuel Gas/No.6 Oil Process Heat Exchanger

B016 (D.O.T. Heater)
D.O.T. Heater 4-2-B-1; Refinery Fuel Gas Process Heat Exchanger

B019 (FCC Charge Heaters)
FCC Charge Heaters 4-2-B-5,-6; Refinery Fuel Gas/No. 6 Oil Process Heat Exchanger

B020 (Vacuum Heater)
Vacuum Heater (Reduced Crude) 4-4-B-1; Refinery Fuel Gas/No. 6 Oil Process Heat Exchanger

B021 (Iso-Stripper Heater)
Iso-Stripper Heater 4-27-B-1; Refinery Fuel Gas Process Heat Exchanger

B022 (HDS Charge Heater)
HDS Charge Heater 4-32-B-1; Refinery Fuel Gas/No. 6 Oil Process Heat Exchanger

B023 (NPT Heater)
NPT Heater 4-30-B-1; Refinery Fuel Gas/No. 6 Oil Process Heat Exchanger

B024 (No. 1 Boiler)
No. 1 Boiler 4-16-B-1; Refinery Fuel Gas/No. 6 Oil Process Heat Exchanger

B025 (No. 2 Boiler)
No. 2 Boiler 4-16-B-2; Refinery Fuel Gas/No. 6 Oil Process Heat Exchanger

B026 (No. 11 Boiler)
No. 11 Boiler 4-16-B-11; Refinery Fuel Gas/No. 6 Oil Process Heat Exchanger

B027 (No. 12 Boiler)
No. 12 Boiler 4-16-B-12; Refinery Fuel Gas/No. 6 Oil Process Heat Exchanger

B028 (CCR Stabilizer Reboiler)
CCR Stabilizer Reboiler 4-33-B-5; Refinery Fuel Gas/No. 6 Oil Process Heat Exchanger

B029 (CCR Charge Heaters)
CCR Charge Heaters 4-33-B-1,-2,-3,-4; Refinery Fuel Gas/No. 6 Oil Process Heat Exchanger

J001 (Gasoline/Kerosene/Diesel Loading Rack)
Gasoline/Kerosene/Diesel Loading Rack with Vapor Recovery Unit

P002 (FCC Unit)
FCC Unit 4-7; Fluidized Catalytic Cracking Unit

P003 (North Area Flare)
North Area Flare 4-14-F-9; Emergency Relief and Vapor Blow Area (Flare)

P004 (South Area Flare)
South Area Flare 4-14-F-8; Emergency Relief and Vapor Blow Area (Flare)

P007 (Asphalt Oxidizer with Thermal Afterburner)
Asphalt Oxidizer with Thermal Afterburner

P008 (Vacuum Unit with Process Heater Control)
Vacuum Unit 4-4 with Process heater Control 4-4-B-1

P009 (API Separator)
API Separator 4-14-L-258; Oil/Water Separator

P011 (No. 2 Sulfur Recovery Unit and Thermal Oxidizer)
No. 2 Sulfur Recovery Unit and Thermal Oxidizer 4-34

P013 (Refinery-Wide Fugitive VOC Emissions)
Refinery Fugitive VOC Emissions; Facility-Wide Organic Compound Fugitive Leaks

P016 (No. 3 Sulfur Recovery Unit)
No. 3 Sulfur Recovery Unit 4-38

P017 (Stormwater Diesel Emergency Pump)
Stormwater Diesel Emergency Pump

P018 (FCC MagnaCat System)
FCC MagnaCat System

P019 (Firewater Diesel Emergency Pump)
Firewater Diesel Emergency Pump

T023 (Tank 40)
4-6-TK-40; 2,100,000 gal Petroleum Liquid lnternal Floating Roof Storage Tank

T024 (Tank 45)
4-6-TK-45; 2,100,000 gal Petroleum Liquid Internal Floating Roof Storage Tank

T028 (Tank 50)
4-6-TK-50; 2,284,380 gal Petroleum Liquid Internal Floating Roof Storage Tank

T030 (Tank 56)
4-6-TK-56; 835,254 gal Petroleum Liquid External Floating Roof Storage Tank

T033 (Tank 61)
4-6-TK-61; 418,530 gal Petroleum Liquid Internal Floating Roof Storage Tank

T035 (Tank 65)
4-6-TK-65; 835,002 gal Petroleum Liquid External Floating Roof Storage Tank

T036 (Tank 66)
4-6-TK-66; 1,004,010 gal Petroleum Liquid External Floating Roof Storage Tank

T037 (Tank 67)
4-6-TK-67; 1,004,010 gal Petroleum Liquid Internal Floating Roof Storage Tank

T038 (Tank 68)
4-6-TK-68; 2,100,000 gal Petroleum Liquid External Floating Roof Storage Tank

T039 (Tank 74)
4-6-TK-74; 2,100,000 gal Petroleum Liquid External Floating Roof Storage Tank

T040 (Tank 117)
4-6-TK-117; 505,848 gal Petroleum Liquid Internal Floating Roof Storage Tank

T041 (Tank 214)
4-6-TK-214; 6,090,000 gal Petroleum Liquid Internal Floating Roof Storage Tank

T043 (Tank 225)
4-6-TK-225; 1,849,638 gal Petroleum Liquid Internal Floating Roof Storage Tank

T044 (Tank 232)
4-6-TK-232; 6,090,000 gal Petroleum Liquid Internal Floating Roof Storage Tank

T045 (Tank 226)
4-6-TK-226; 666,036 gal Petroleum Liquid Internal Floating Roof Storage Tank

T046 (Tank 52)
4-6-TK-52; 4,031,034 gal Petroleum Liquid External Floating Roof Storage Tank

T047 (Tank 71)
4-6-TK-71; 532,350 gal Petroleum Liquid External Floating Roof Storage Tank

T048 (Tank 72)
4-6-TK-72; 533,526 gal Petroleum Liquid External Floating Roof Storage Tank

T049 (Tank 120)
4-6-TK-120; 624,204 gal Petroleum Liquid Internal Floating Roof Storage Tank

T050 (Tank 119)
4-6-TK-119; 974,862 gal Petroleum Liquid Internal Floating Roof Storage Tank

T051 (Tank 239)
4-6-TK-239; 840,000 gal Petroleum Liquid Internal Floating Roof Storage Tank

T052 (Tank 22)
4-6-TK-22; 1,008,000 gal Petroleum Liquid Fixed Roof Storage Tank

T065 (Tank 69)
4-6-TK-69; 1,251,180 gal Petroleum Liquid External Floating Roof Storage Tank

T067 (Tank 73)
4-6-TK-73; 533,946 gal Petroleum Liquid External Floating Roof Storage Tank

T082 (Tank 121)
4-6-TK-121; 2,279,130 gal Petroleum Liquid Fixed Roof Storage Tank

T083 (Tank 122)
4-6-TK-122; 4,250,526 gal Petroleum Liquid Fixed Roof Storage Tank

T130 (Tank 7)
4-6-TK-7; 1,029,630 gal Petroleum Liquid Fixed Roof Storage Tank

T134 (Tank 23)
4-6-TK-23; 1,008,000 gal Petroleum Liquid Fixed Roof Storage Tank

T142 (Tank 240)
4-6-TK-240; 1,344,000 gal Petroleum Liquid Internal Floating Roof Storage Tank

T143 (Tank 242)
4-6-TK-242; 1,944,180 gal Petroleum Liquid Internal Floating Roof Storage Tank

T144 (Tank 243)
4-6-TK-243; 1,260,000 gal Petroleum Liquid Internal Floating Roof Storage Tank

T145 (Tank 1)
4-14-TK-1; 3,999,996 gal Stormwater External Floating Roof Storage Tank

T146 (Tank 2)
4-14-TK-2; 2,300,004 gal Stormwater External Floating Roof Storage Tank

T148 (Tank 244)
4-6-TK-244; 1,176,000 gal Petroleum Liquid Internal Floating Roof Storage Tank

T149 (Tank 245)
4-6-TK-245; 1,176,000 gal Petroleum Liquid Internal Floating Roof Storage Tank

T153 (Tank 246)
4-14-TK-246; 39,760 gal Petroleum Liquid Fixed Roof Storage Tank

T154 (Tank 247)
4-14-TK-247; 39,760 gal Petroleum Liquid Fixed Roof Storage Tank

T160 (Tank 250)
4-6-TK-250; 20,580 gal Gasoline Additive Fixed Roof Storage Tank

T161 (Tank 249)
4-6-TK-249; 39,774 gal Ethanol Fixed Roof Storage Tank

T162 (Tank 251)
4-20-TK-251; 550,200 gal Petroleum Liquid Internal Floating Roof Storage Tank

T166 (Tank 252)
4-6-TK-252; 2,331,000 gal Petroleum Liquid Fixed Roof Storage Tank

T167 (Tank 253)
4-20-TK-253; 550,200 gal Petroleum Liquid Internal Floating Roof Storage Tank

T168 (Tank 254)
4-6-TK-254; 525,000 gal Petroleum Liquid Internal Floating Roof Storage Tank; Not yet constructed.

T169 (Tank 62)
4-6-TK-62; 361,116 gal Petroleum Liquid Internal Floating Roof Storage Tank; Was permitted as Source No. T034.

Z013 (Refinery Vehicle Fuel Dispensing Facility)
Refinery Vehicle Gasoline/Diesel Fuel Dispensing Facility

Z014 (Diesel Powered Boilerhouse Fire Pump)
4-15-G-36; Diesel Powered Boilerhouse Fire Pump

Z016 (South Area Cooling Towers)
4-15-CT-1 and 4-15-CT-2; South Area Cooling Towers

Z017 (North Area Cooling Towers)
4-15-CT-3 and 4-15-CT-4; North Area Cooling Towers

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Canton Division of Air Pollution Control
420 Market Avnue N.
Canton, OH 44702-1544
(330) 489-3385

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Record Keeping and Reporting Requirements

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

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.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

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 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.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))

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 record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))
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 record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written reports shall be submitted quarterly, i.e., 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.) See B.6 below if no deviations occurred during the quarter.
(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii))

iii. Written reports, which identify any deviations from the federally enforceable monitoring, record keeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, record keeping, and reporting requirements. 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.
(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii))

iv. 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.
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

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 condition, of any emissions unit(s) 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 submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upset conditions.

Except as provided in OAC rule 3745-15-06, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iii))

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.
(Authority for term: OAC rule 3745-77-07(A)(4))

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.
(Authority for term: OAC rule 3745-77-07(A)(5))

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.
(Authority for term: OAC rule 3745-77-07(A)(6))

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 reissuance, or modification, or for denial of a permit renewal application.

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, reopened, revoked, or revoked and reissued, for cause, in accordance with A.10 below. 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, reopening 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.

(Authority for term: OAC rule 3745-77-07(A)(7))

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.
(Authority for term: OAC rule 3745-77-07(A)(8))

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.
(Authority for term: OAC rule 3745-77-07(A)(9))

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.
(Authority for term: OAC rule 3745-77-07(A)(10))

10. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

11. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of

a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.
(Authority for term: OAC rule 3745-77-07(B))

12. Compliance Requirements

a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V 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 paragraph (E) of OAC rule 3745-77-03.
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.

d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:

i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.

ii. Compliance certifications shall include the following:
   (a) An identification of each term or condition of this permit that is the basis of the certification.
   (b) The permittee's current compliance status.
   (c) Whether compliance was continuous or intermittent.
   (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
   (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))

13. Permit Shield

a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

(Authority for term: OAC rule 3745-77-07(F))

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

15. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This

emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.
(Authority for term: OAC rule 3745-77-07(G))

16. Off-Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;

b. The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change;

c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);

d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and

e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For purposes of clarification, the permittee can refer to Engineering Guide #63 that is available in the STARSHIP software package.)
(Authority for term: OAC rule 3745-77-07(I))

17. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited

to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.
(This term is provided for informational purposes only.)

18. Insignificant Activities

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.
(Authority for term: OAC rule 3745-77-07(A)(1))

19. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.
(Authority for term: OAC rule 3745-77-07(A)(1))

20. 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.
(Authority for term: OAC rule 3745-77-07(A)(1))

B. *State Only Enforceable Section*

1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping 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 quarterly, i.e., 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.)

2. Records Retention Requirements

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

3. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

4. Scheduled Maintenance/Malfunction Reporting

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

5. 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.

6. Additional Reporting Requirements When There Are No Deviations of <u>Federally Enforceable</u> 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 reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
general provisions	40 CFR 63, Subpart A	See A.I.2.a and A.I.2.b below.
equipment leaks	40 CFR 63, Subpart CC and 40 CFR 60, Subpart VV OAC rule 3745-21-09(T)	See A.I.2.c through A.I.2.e below.
wastewater provisions	40 CFR 63, Subpart CC and 40 CFR 61, Subpart FF	See A.I.2.f through A.I.2.g below.
storage vessels	40 CFR 63, Subpart CC	See A.I.2.h below.
miscellaneous process vents	40 CFR 63, Subpart CC	See A.I.2.k.

2. Additional Terms and Conditions

2.a. 40 CFR 63, Subpart A provides applicability provisions, definitions, and other general provisions that are applicable to emissions units affected by 40 CFR 63.

2.b. [63.642(c)]
Table 6 of 40 CFR 63, Subpart CC specifies the provisions of 40 CFR 63, Subpart A that apply and those that do not apply to permittees of sources subject to 40 CFR 63, Subpart CC.

2.c. [63.648(a)] - Equipment Leaks
In accordance with 40 CFR 63, Subpart CC, the permittee shall comply with the applicable provisions of 40 CFR 60, Subpart VV and paragraph (b) of 40 CFR 63.648 except as provided in paragraphs 2.c.i., 2.c.ii. of this section, and (c) through (i) of 40 CFR 63.648.

i. [63.648(a)(1)]
For purposes of compliance with 40 CFR 63.648, the provisions of 40 CFR 60, Subpart VV apply only to equipment in organic HAP service, as defined in 40 CFR 63.641, subpart CC.

ii. [63.648(a)(2)]
Calculation of percentage leaking equipment components for subpart VV of 40 CFR 60 may be done on a process unit basis or a source wide basis. Once the permittee has decided, all subsequent calculations shall be on the same basis unless a permit change is made.

2.d. [63.640(p)] - Equipment Leaks
If there is an overlap of 40 CFR 63, Subpart CC with other regulations for equipment leaks, after the compliance dates, that are also subject to the provisions of 40 CFR 60 and 61, the permittee is required to comply only with the provisions specified in 40 CFR 63, Subpart CC.

2.e. [63.640(q)] - Equipment Leaks
For overlap of 40 CFR 63, Subpart CC with local or State regulations, the permitting authority for the affected source may allow consolidation of the monitoring, record keeping, and reporting requirements under subpart CC with the monitoring, record keeping, and reporting requirements under other applicable requirements in 40 CFR 60, 61, or 63, and in any 40 CFR 52 approved State implementation plan provided the implementation plan allows for approval of alternative monitoring, reporting, or record keeping requirements and provided that the permit contains an equivalent degree of compliance and control.

2.f. [63.647(a)] - Wastewater Provisions
Except as provided in 63.647(b) of this section, each permittee of a Group 1 wastewater stream shall comply with the requirements of 40 CFR 61.340 through 61.355 of 40 CFR 61, subpart FF [see section A.II., A.III., A.IV. and A.V. of Part II] for each process wastewater stream that meets the following definition in 40 CFR 61.641:

Group 1 wastewater stream means a wastewater stream at a petroleum refinery with a total annual benzene loading of 10 megagrams per year or greater as calculated according to the procedures in 40 CFR 61.342 of subpart FF that has a flow rate of 0.02 liters per minute or greater, has a benzene concentration of 10 parts per million by weight or greater, and is not exempt from control requirements under the provisions of 40 CFR 61, subpart FF.

2.g. [63.647(b)] - Wastewater Provisions
As used in the wastewater provisions section, all terms not defined in 40 CFR 63.641 shall have the meaning given them in the Clean Air Act or in 40 CFR 61, subpart FF, 61.341.

2.h. [63.640(n)] - Storage Vessels
Overlap of 40 CFR 63, Subpart CC with other regulations for storage vessels.

i. After the compliance dates specified in 40 CFR 63.640(h), a Group 1 or Group 2 storage vessel that is part of an existing source and is also subject to the provisions of 40 CFR 60, subpart Kb, is required to comply only with the requirements of 40 CFR 60, Subpart Kb, except as provided in paragraph viii. of this section.

ii. After the compliance dates specified in 40 CFR 63.640(h), a Group 1 storage vessel that is part of a new source and is subject to 40 CFR 60, subpart Kb is required to comply only with 40 CFR 63, Subpart CC.

iii. After the compliance dates specified in 40 CFR 63.640(h), a Group 2 storage vessel that is part of a new source and is subject to the control requirements in 60.112b of 40 CFR 60, Subpart Kb is required to comply only with 40 CFR 60, Subpart Kb except as provided in paragraph viii. of this section.

iv. After the compliance dates specified in 40 CFR 63.640(h), a Group 2 storage vessel that is part of a new source and is subject to 40 CFR 60.110b, but is not required to apply controls by 40 CFR 60.110b or 60.112b is required to comply only with this subpart.

v. After the compliance dates specified in 40 CFR 63.640(h), a Group 1 storage vessel that is also subject to the provisions of 40 CFR 60, Subparts K or Ka is required to only comply with the provisions of 40 CFR 63, Subpart CC.

vi. After compliance dates specified in 40 CFR 63.640(h), a Group 2 storage vessel that is subject to the control requirements of 40 CFR 60, Subparts K or Ka is required to comply only with the provisions of 40 CFR 60, Subparts K or Ka except as provided for in 40 CFR 63.640(n)(9).

vii. After the compliance dates specified in 40 CFR 63.640(h), a Group 2 storage vessel that is subject to 40 CFR 60, Subparts K or Ka, but not to the control requirements of 40 CFR 60, Subparts K or Ka, is required to comply only with 40 CFR 63, Subpart CC.

viii. Storage vessels described by paragraphs i. through iii. of this section are to comply with 40 CFR 60, subpart Kb except as provided for in paragraphs viii.(a) through viii.(f) of this section.

(a) Storage vessels that are to comply with 40 CFR 60.112b(a)(2) of subpart Kb are exempt from the secondary seal requirements of 60.112(a)(2)(i)(B) during the gap measurements for the primary seal required by 60.113(b) of subpart Kb.

(b) If the permittee determines that it is unsafe to perform the seal gap measurements required in 60.113b(b) of subpart Kb or to inspect the vessel to determine compliance with 60.113b(a) of subpart Kb because the roof appears to be

structurally unsound and poses an imminent danger to inspecting personnel, the permittee shall comply with the requirements in either 40 CFR 63.120(b)(7)(i) or 63.120(b)(7)(ii) of subpart G.

(c) If a failure is detected during the inspections required by 60.113b(a)(2) or during the seal gap measurements required by 60.113b(b)(1), and the vessel cannot be repaired within 45 days and the vessel cannot be emptied within 45 days, the permittee may utilize up to two extensions of up to 30 additional calendar days each. The permittee is not required to provide a request for the extension to the Director or Administrator.

(d) If an extension is utilized in accordance with paragraph viii.(c) of this section, the permittee shall, in the next periodic report, identify the vessel, provide the information listed in §60.113b(a)(2) or §60.113b(b)(4)(iii), and describe the nature and date of the repair made or provide the date the storage vessel was emptied.

(e) Permittees of storage vessels complying with subpart Kb of part 60 may submit the inspection reports required by 60.115b(a)(3), (a)(4) and (b)(4) of subpart Kb as part of the periodic reports required by this subpart, rather than within the 30-day period specified in 60.115b(a)(3), (a)(4), and (b)(4) of subpart Kb.

(f) The reports of rim seal inspections specified in 60.115b(b)(2) are not required if none of the measured gaps or calculated gap areas exceed the limitations specified in 60.113b(b)(4). Documentation of the inspections shall be recorded as specified in 60.115b(b)(3).

2.i. If an additional petroleum refining process unit is added to a plant site or if a miscellaneous process vent, storage vessel, gasoline loading rack, or marine tank vessel loading operation that meets the criteria in 40 CFR 63.640(c)(1) through (c)(7) of subpart CC is added to an existing petroleum refinery or if another deliberate operational process change creating an additional Group 1 emission point(s) (as defined in 63.641 of subpart CC) is made to an existing petroleum refining process change creating an additional Group 1 emission point(s) (as defined in 63.641 of subpart CC) is made to an existing petroleum refining process unit, and if the addition or process change is not subject to the new source requirements as determined according to 40 CFR 63.640(i) of (j) of subpart CC, the requirements in paragraphs i. Through iii. Of this section shall apply. Examples of process changes, and changes that are within the equipment configuration and operating conditions documented in the Notification of Compliance Status report required by 40 CFR 63.654(f).

i. [63.640(1)(1)]
The added emission point(s) and any emission point(s) within the added or changed petroleum refining process unit are subject to the requirements for an existing source.

ii. [63.640(1)(2)]
The added emission point(s) and any emission point(s) within the added or changed petroleum refining process unit shall be in compliance with 40 CFR 63, Subpart CC, by the dates specified in paragraphs ii.(a) or ii.(b) of this section, as applicable.

(a) If a petroleum refining process unit is added to a plant site or an emission point(s) is added to any existing petroleum refining process unit, the added emission point(s) shall be in compliance upon initial startup of any added petroleum refining process unit or emission point(s) or by 3 years after the date of promulgation of this subpart, whichever is later.

(b) If a deliberate operational process change to an existing petroleum refining process unit causes a Group 2 emission point to become a Group 1 emission point (as defined in 40 CFR 63.641), the permittee shall be in compliance upon initial startup or by 3 years after the date of promulgation of this subpart, whichever is later, unless the permittee demonstrates to the Administrator that achieving compliance will take longer than making the change. If this demonstration is made to the Administrator's satisfaction, the permittee shall follow the procedures in 63.640(m)(1) through (m)(3) [see section A.I.1.] to establish a compliance date.

iii. [63.640(1)(3)]
The permittee of a petroleum refining process unit or of a storage vessel, miscellaneous process vent, wastewater stream, gasoline loading rack, or marine tank vessel loading operation meeting the criteria in 40 CFR 63.640(c)(1) through (c)(7) of subpart CC, that is added to a plant site and is subject to the requirements for existing sources shall comply with the reporting and record keeping requirements that are applicable to existing sources including, but not limited to, the reports listed in paragraphs (a) through (f) of this section. A process change to an existing petroleum refining process unit shall be subject to the reporting requirements for existing sources including, but not limited to, the reports listed below. The applicable reports include, but are not limited to:

(a) the Notification of Compliance Status report as required by 40 CFR 63.654(f) for the emission points that were added or changed;

(b) Periodic Reports and other reports as required by 40 CFR 63.654(g) and (h);

(c) reports and notifications required by sections of subpart A of 40 CFR 63 that are applicable to this subpart, as identified in table 6 of subpart CC.

(d) reports and notifications required by 40 CFR 63.182 or 40 CFR 60.487. The requirements of subpart H of this part are summarized in table 3 of subpart CC;

(e) reports required by 40 CFR 61.357 of subpart FF;

(f) reports and notifications required by 40 CFR 63.428(b), (c), (g)(1) and (h)(1) through (h)(3) of subpart R. These requirements are summarized in table 4 of this subpart; and

(g) [63.640(1)(4)]
If pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, or instrumentation systems are added to an existing source, they are subject to the equipment leak standards for existing sources in 40 CFR 63.648 [see section A.II]. A notification of compliance status report shall not be required for such added equipment.

2.j. [63.640(m)]
If a change that does not meet the criteria in 40 CFR 63.640(a) is made to a petroleum refining process unit subject to this subpart, and the change causes a Group 2 emission point to become a Group 1 emission point (as defined in 40 CFR 63.641), the permittee shall comply with the requirements of subpart CC for existing sources for the Group 1 emission point as expeditiously as practicable, but in no event later than 3 years after the emission point becomes Group 1.

i. The permittee shall submit to the Administrator for approval a compliance schedule, along with a justification for the schedule.

ii. The compliance schedule shall be submitted within 180 days after the change is made, unless the compliance schedule has been previously submitted to the permitting authority. If it is not possible to determine until after the change is implemented whether the emission point has become Group 1, the compliance schedule shall be submitted within 180 days of the date when the effect of the change is known to the source. The compliance schedule may be submitted in the next Periodic Report if the change is made after the date the Notification of Compliance Status report is due.

iii. The Administrator shall approve or deny the compliance schedule or request changes within 120 calendar days of receipt of the compliance schedule and justification. Approval is automatic if not received from the Administrator within 120 calendar days of receipt.

2.k. The permittee shall comply with the requirements of either sections A.I.2.k.i. or A.I.2.k.ii. for all Group 1 miscellaneous process vents at the facility by one of the following methods:

i. Reduce emissions of organic HAPs using a flare that meets the requirements of 40 CFR, part 63.11(b) of subpart A of this part.

ii. Reduce emissions of organic HAPs, using a control device, by 98 weight-percent or to a concentration of 20 parts per million by volume, on a dry basis, corrected to 3 percent oxygen, whichever is less stringent.

2.l. If a boiler or process heater is used to comply with the percentage of reduction requirement or concentration limit specified in section A.I.2.k.ii. , then the vent stream shall be introduced into the flame zone of such a device, or in a location such that the required percent reduction or concentration is achieved.

II. Operational Restrictions - 40 CFR 63, Subpart CC

[63.648] EQUIPMENT LEAK STANDARDS - 40 CFR 63, Subpart CC

1. [63.648(b)]
The use of monitoring data generated before August 18, 1995 to qualify for less frequent monitoring of valves and pumps as provided under 40 CFR 60, Subpart VV and 40 CFR 63.648(c) [see section A.II. in Part II] (i.e., quarterly or semiannually) is governed by the requirements of 40 CFR 63.648(b)(1) and (b)(2) [see section A.II. in Part II].

   a. [63.648(b)(1)]
   Monitoring data must meet the test methods and procedures specified in 40 CFR 60.485 except for minor departures.

   b. [63.648(b)(2)]
   Departures from the criteria specified in 40 CFR 60.485(b) or from the monitoring frequency specified in 40 CFR 60, Subpart VV or in 40 CFR 63.648(c) [see section A.II. in Part II] (such as every 6 weeks instead of monthly or quarterly) are minor and do not significantly affect the quality of the data. An example of a minor departure is monitoring at a slightly different frequency (such as every 6 weeks instead of monthly or quarterly). Failure to use a calibrated instrument is not considered a minor departure.

2. [63.648(c)]
In lieu of complying with the existing source provisions of 63.648(a) [see section A.I.2. in Part II], the permittee may elect to comply with the requirements of 40 CFR 63.161 through 63.169, 63.171, 63.172, 63.175, 63.176, 63.177, 63.179 and 63.180 of subpart H except as provided in 40 CFR 63.648(c)(1) through (c)(10) and 40 CFR 63.648(e) through (i) of subpart CC.

3. [63.648(f)]
Reciprocating pumps in light liquid service are exempt from 60.482 [see section A.II. in Part II] if recasting the distance piece or reciprocating pump replacement is required.

4. [63.648(g), (g)(1) and (g)(2)]
Compressors in hydrogen service are exempt from the requirements of 63.648(a) and (c) [see sections A.I.2. and A.II. in Part II] if a permittee demonstrates that a compressor is in hydrogen service.

a. Each compressor is presumed not to be in hydrogen service unless the permittee demonstrates that the piece of equipment is in hydrogen service.

b. For a piece of equipment to be considered in hydrogen service, it must be determined that the percentage hydrogen content can be reasonably expected always to exceed 50 percent by volume. To determine the percentage hydrogen content, refer to 40 CFR 63.648(g)(2)(i).

5. [63.648(i)]
Reciprocating compressors are exempt from seal requirements if recasting the distance piece or compressor replacement is required.

6. [63.637(c)] WASTEWATER PROVISIONS -40 CFR 63, Subpart CC
Each permittee required under 40 CFR 61, subpart FF to perform periodic measurement of benzene concentration in wastewater, or to monitor process or control device operating parameters shall operate in a manner consistent with the minimum or maximum (as appropriate) permitted concentration or operating parameter values. Operation of the process, treatment unit, or control device resulting in a measured concentration or operating parameter value outside the permitted limits shall constitute a violation of the emission standards. Failure to perform required leak monitoring for closed vent systems and control devices or failure to repair leaks within the time period specified in 40 CFR 61, subpart FF shall constitute a violation of the standard.

7. [60.482-1] STANDARDS: GENERAL - 40 CFR 60, Subpart VV

a. [60.482-1(a)]
Each permittee subject to the provisions of this subpart shall demonstrate compliance with the requirements of 60.482-1 to 60.482-10 [see section A.II. in Part II] for all equipment within 180 days of initial startup.

b. [60.482-1(b)]
Compliance with 60.482-1 to 60.482-10 [see section A.II. in Part II] will be determined by review of records and reports, review of performance test results, and inspection using the methods and procedures specified in 60.485 [see section A.V. in Part II].

c. [60.482-1(c)(1) and (c)(2)]
i. The permittee may request a determination of equivalence of a means of emission limitation to the requirements of 60.482-2, 60.482-3, 60.482-5, 60.482-6, 60.482-7, 60.482-8 and 60.482-10 [see section A.II. in Part II] as provided in 40 CFR 60.484.

ii. If the Administrator makes a determination that a means of emission limitation is at least equivalent to the requirements of 60.482-2, 60.482-3, 60.482-5, 60.482-6, 60.482-7, 60.482-8 and 60.482-10 [see section A.II. in Part II], the permittee shall comply with the requirements of that determination.

d. [60.482-1(d)]
Equipment that is in vacuum service is excluded from the requirements of 60.482-2 to 60.482-10 [see section A.II. in Part II] if it is identified as required in 60.486(e)(5) [see section A.III. in Part II].

8. [60.482-2] STANDARDS: PUMPS IN LIGHT LIQUID SERVICE - 40 CFR 60, Subpart VV

a. [60.482-2(a)]
Each pump in light liquid service shall be monitored monthly to detect leaks by the methods specified in 60.485(b) [see section A.V. in Part II], except as provided in 60.482-1(c) [see section A.II. in Part II] and paragraphs d., e., and f. of this section. Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal.

b. [60.482-2(b)]
If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If there are indications of liquids dripping from the pump seal, a leak is detected.

c. [60.482-2(c)]
When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 60.482-9 [see section A.II. in Part II]. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

d. [60.482-2(d)]
Each pump equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of paragraph a. of this section, provided the following requirements are met:

i. Each dual mechanical seal system is:

(a) operated with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or

(b) equipped with a barrier fluid degassing reservoir that is connected by a closed vent system to a control device that complies with the requirements of 60.482-10 [see section A.II.in Part II]; or

(c) equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere.

ii. The barrier fluid system is in heavy liquid service or is not in VOC service.

iii. Each barrier fluid system is equipped with a sensor that will detect failure of the seal system, the barrier fluid system, or both.

iv. Each pump is checked by visual inspection, each calendar week, for indications of liquids dripping from the pump seals.

v. Each sensor as described in paragraph d.iii. of this section is checked daily or is equipped with an audible alarm, and the permittee determines, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both.

vi. If there are indications of liquids dripping from the pump seal or the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in paragraph d.v. of this section, a leak is detected. When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 60.482-9 [see section A.II. in Part II]. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

e. [60.282-2(e)]
Any pump that is designated, as described in 60.486(e)(1) and (2) [see section A.III. in Part II], for no detectable emission, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of paragraphs a., c., and d. of this section if the pump:

i. has no externally actuated shaft penetrating the pump housing;

ii. is demonstrated to be operating with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background as measured by the methods specified in 40.485(c) [see section A.V. in Part II]; and

iii. is tested for compliance with paragraph e.ii. of this section initially upon designation, annually, and at other times requested by the Administrator.

f. [60.482-2(f)]
If any pump is equipped with a closed vent system capable of capturing and transporting any leakage from the seal or seals to a control device that complies with the requirements of 60.482-10 [see section A.II. in Part II]], it is exempt from paragraphs a. through e. of this section.

9. [60.482-3] STANDARDS: COMPRESSORS - 40 CFR 60, Subpart VV

a. [60.482-3(a)]

Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as provided in 60.482-1(c) [see section A.II. in Part II]] and paragraph h. and i. of this section.

b. [60.482-3(b)(1)-(3)]
Each compressor seal system as required in paragraph a. of this section shall be:

i. operated with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or

ii. equipped with a barrier fluid system that is connected by a closed vent system to a control device that complies with the requirements of 60.482-10 [see section A.II. in Part II]]; or

iii. equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere.

c. [60.482-3(c)]
The barrier fluid system shall be in heavy liquid service or shall not be in VOC service.

d. [60.482-3(d)]
Each barrier fluid system as described in paragraph a. of this section shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both.

e. [60.482-3(e)]
Each sensor as required in paragraph d. of this section shall be checked daily or shall be equipped with an audible alarm. The permittee shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both.

f. [60.482-3(f)]
If the sensor indicates failure of the seal system, the barrier system, or both based on the criterion determined under paragraph e., a leak is detected.

g. [60.482-3(g)]
When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 60.482-9 [see section A.II. in Part II]]. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

h. [60.482-3(h)]
A compressor is exempt from the requirements of paragraphs a. and b. of this section, if it is equipped with a closed vent system capable of capturing and transporting any leakage

from the seal to a control device that complies with the requirements of 60.482-10 [see section A.II. in Part II], except as provided in paragraph i. of this section.

i. [60.482-3(i)]
Any compressor that is designated, as described in 60.486(e)(1) and (2) [see section A.III. in Part II], for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of paragraphs a. through h. of this section if the compressor:

i. is demonstrated to be operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the methods specified in 60.485(c) [see section A.V. in Part II]; and

ii. is tested for compliance with section A.II.9.i.i, initially upon designation, annually, and at other times requested by the Administrator.

j. [60.482-3(j)]
Any existing reciprocating compressor in a process unit which becomes an affected facility under provisions of 60 CFR 60.14 or 60.15 is exempt from 60.482-3(a), (b), (c), (d), (e), and (h) [see section A.II. in Part II], provided the permittee demonstrates that recasting the distance piece or replacing the compressor are the only options available to bring the compressor into compliance with the provisions of paragraphs a. through e. and h. of this section.

10. [60.482-4] STANDARDS: PRESSURE RELIEF DEVICES IN GAS/VAPOR SERVICE - 40 CFR 60, Subpart VV

a. [60.482-4(a)]
Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in 60.485(c) [see section A.V. in Part II].

b. [60.482-4(b)]
After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after the pressure release, except as provided in 60.482-9 [see section A.II. in Part II]. No later than 5 calendar days after the pressure release, the pressure relief device shall be monitored to confirm the conditions of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, by the methods specified in 60.485(c) [see section A.V. in Part II].

c. [60.482-4(c)]

Any pressure relief device that is equipped with a closed vent system capable of capturing and transporting leakage through the pressure relief device to a control device as described in 60.482-10 [see section A.II.in Part II] is exempted from the requirements of paragraphs a. and b. of this section.

11. [60.482-5] STANDARDS: SAMPLING CONNECTION SYSTEMS - 40 CFR 60, Subpart VV

    a. [60.482-5(a)]
    Each sampling connection system shall be equipped with a closed-purged, closed-loop, or closed-vent system, except as provided in 60.482-1(c) [see section A.II. in Part II].

    b. [60.482-5(b)]
    Each closed-purge, closed-loop, or closed-vent system as required in paragraph a. of this section shall comply with the requirements specified in paragraphs b.i. through b.iii. of this section:

        i. return the purged process fluid directly to the process line; or

        ii. collect and recycle the purged process fluid to a process; or

        iii. be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements of 60.482-10 [see section A.II. in Part II].

    c. [60.482-5(c)]
    In situ sampling systems and sampling systems without purges are exempt from the requirements of paragraphs a. and b. of this section.

12. [60.482-6] STANDARDS: OPEN-ENDED VALVES OR LINES - 40 CFR 60, Subpart VV

    a. [60.482-6(a)(1) and (2)]
    Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in 60.482-1(c) [see section A.II in Part II]. The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line.

    b. [60.482-6(b)]
    Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

    c. [60.482-6(c)]

When a double block-and-bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves, but shall comply with paragraph a. of this section at all other times.

13. [60.482-7] STANDARDS: VALVES IN GAS/VAPOR SERVICE AND IN LIGHT LIQUID SERVICE - 40 CFR 60, Subpart VV

a. [60.482-7(a)]
Each valve shall be monitored monthly to detect leaks by the methods specified in 60.485(b) [see section A.V. in Part II] and shall comply with paragraphs b. through e. of this section, except as provided in paragraphs f., g., and h. of this section, 60.483-1, 60.483-2, and 60.482-1(c) [see section A.II.].

b. [60.482-7(b)]
If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

c. [60.482-7(c)(1) and (2)]
Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected. If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 successive months.

d. [60.482-7(d)(1) and (2)]
When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in 60.482-9 [see section A.II.]. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

e. [60.482-7(e)(1)-(4)]
First attempts at repair include, but are not limited to, the following best practices where practicable:

i. tightening of bonnet bolts;

ii. replacement of bonnet bolts;

iii. tightening of packing gland nuts; and

iv. injection of lubricant into lubricated packing.

f. [60.482-7(f)(1)-(3)]
Any valve that is designated, for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of paragraph a. of this section if the valve:

i. has no external actuating mechanism in contact with the process fluid;

ii. is operated with emissions less than 500 ppm above background as determined by the method specified in 60.485(c) [see section A.V. in Part II]; and

iii. is tested for compliance with paragraph f.ii. of this section initially upon designation, annually, and at other times requested by the Director and/or Administrator.

g. [60.482-7(g)(1)(2)]
Any valve that is designated, as described in 60.486(f)(1) [see section A.III. of Part II], as an unsafe-to-monitor valve is exempt from the requirements of paragraph a. of this section if:

i. the permittee of the valve demonstrates that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with paragraph a. of this section; and

ii. the permittee of the valve adheres to a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times.

h. [60.482-7(h)(1)-(3)]
Any valve that is designated, as described in 60.486(f)(2) [see section A.III. of Part II], as a difficult-to-monitor valve is exempt from the requirements of paragraph a. of this section if:

i. the permittee of the valve demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface;

ii. the process unit within which the valve is located either becomes an affected facility through 40 CFR 60.14 or 60.15 or the permittee designates less than 3.0 percent of the total number of valves as difficult-to-monitor; and

iii. the permittee of the valve follows a written plan that requires monitoring of the valve at least once per calendar year.

14. [60.482-8] STANDARDS: PUMPS AND VALVES IN HEAVY LIQUID SERVICE, PRESSURE RELIEF DEVICES IN LIGHT LIQUID OR HEAVY LIQUID SERVICE, AND FLANGES AND OTHER CONNECTORS - 40 CFR 60, Subpart VV

a. [60.482-8(a)]
Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors shall be monitored within 5 days by the method specified in 60.485(b) [see section A.V. in Part II] if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method.

b. [60.482-8(b)]
If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

c. [60.482-8(c)]
When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 60.482-9 [see section A.II. of Part II]. The first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

d. [60.482-8(d)]
First attempts at repair include, but are not limited to, the best practices described under 60.482-7(e) [see section A.II. of Part II].

15. [60.482-9] STANDARDS: DELAY OF REPAIR - 40 CFR 60, Subpart VV

a. [60.482-9(a)]
Delay of repair of equipment for which leaks have been detected will be allowed if the repair is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown.

b. [60.482-9(b)]
Delay of repair of equipment will be allowed for equipment which is isolated from the process and which does not remain in VOC service.

c. [60.482-9(c)(1)-(2)]
Delay of repair for valves will be allowed if:

i. the permittee demonstrates that emissions of purged material resulting from immediate repair are greater than the fugitive emissions likely to result from delay of repair; and

ii. when repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with 60.482-10 [see section A.II. of Part II].

d. [60.482-9(d)(1)-(2)]
Delay of repair for pumps will be allowed if:

i. repair requires the use of a dual mechanical seal system that includes a barrier fluid system; and

ii. repair is completed as soon as practicable, but not later than 6 months after the leak was detected.

e. [60.482-9(e)]
Delay of repair beyond a process unit shutdown will be allowed for a valve if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown.

16. [60.482-10] STANDARDS: CLOSED VENT SYSTEMS AND CONTROL DEVICES - 40 CFR 60, Subpart VV

a. [60.482-10(a)]
Permittees of closed vent systems and control devices used to comply with provisions of 40 CFR 60, Subpart VV shall comply with the provisions of this paragraph and the record keeping for closed vent systems found in Part III.

b. [60.482-10(b)]
Vapor recovery systems (for example, condensers and adsorbers) shall be designed and operated to recover the VOC emissions vented to them with an efficiency of 95 percent or greater.

c. [60.482-10(c)]
Enclosed combustion devices shall be designed and operated to reduce the VOC emissions vented to them with an efficiency of 95 percent or greater, or to provide a minimum residence time of 0.75 seconds at a minimum temperature of 816°C.

d. [60.482-10(d)]
Flares used to comply with this subpart shall comply with the requirements of 40 CFR 60.18.

e. [60.482-10(e)]
Permittees of control devices used to comply with the provisions of this subpart shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs.

f. [60.482-10(f)]
Except as provided in paragraphs i. through k. of this section, each closed vent system shall be inspected according to the procedures and schedule specified in paragraphs f.i. and f.ii. of this section.

i. [60.482-10(f)(1)]
If the vapor collection system or closed vent system is constructed of hard-piping, the permittee shall comply with the following requirements: conduct an initial inspection according to the procedures in 60.485(b) [see section A.V. in Part II];

and conduct annual visual inspections for visible, audible, or olfactory indications of leaks.

ii. [60.482-10(f)(2)]
If the vapor collection system or closed vent system is constructed of ductwork, the permittee shall conduct an initial inspection according to the procedures in 60.485(b) [see section A.V. in Part II] and conduct annual inspections according to the procedures in 60.485(b) [see section A.V. in Part II].

g. [60.482-10(g)]
Leaks, as indicated by an instrument reading greater than 500 parts per million by volume above background or by visual inspections, shall be repaired as soon as practicable except as provided in paragraph h. of this section. A first attempt at repair shall be made no later than 5 calendar days after the leak is detected. Repair shall be completed no later than 15 calendar days after the leak is detected.

h. [60.482-10(h)]
Delay of repair of a closed vent system for which leaks have been detected is allowed if the repair is technically infeasible without a process unit shutdown or if the permittee determines that emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. Repair of such equipment shall be complete by the end of the next process unit shutdown.

i. [60.482-10(i)]
If a vapor collection system or closed vent system is operated under a vacuum, it is exempt from the inspection requirements of paragraphs f.i. and f.ii. of this section.

j. [60.482-10(j)(1)-(2)]
Any parts of the closed vent system that are designated, as described in 60.482-10(l)(1) [see section A.III. of Part II], as unsafe to inspect are exempt from the inspection requirements of paragraphs f.i. and f.ii. of this section if they comply with the requirements specified in paragraphs j.i. and j.ii. of this section:

i. the permittee determines that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with paragraphs f.i. or f.ii. of this section; and

ii. the permittee has a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times.

k. [60.482-10(k)(1)-(3)]
Any parts of the closed vent system that are designated, as described in 60.482-10(l)(2) [see section A.III. of Part II] of this section, as difficult to inspect are exempt from the

inspection requirements of paragraphs f.i. and f.ii. of this section if they comply with the requirements specified in paragraphs k.i. through k.iii. of this section:

i. the permittee determines that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface; and

ii. the process unit within which the closed vent system is located becomes an affected facility through 40 CFR 60.14 or 60.15, or the permittee designates less than 3.0 percent of the total number of closed vent system equipment as difficult to inspect; and

iii. the permittee has a written plan that requires inspection of the equipment at least once every 5 years.
A closed vent system is exempt from inspection if it is operated under a vacuum.

l. [60.482-10(m)]
Closed vent systems and control devices used to comply with provisions of this subpart shall be operated at all times when emissions may be vented to them.

17. [60.483-1] ALTERNATIVE STANDARDS FOR VALVES - ALLOWABLE PERCENTAGE OF VALVES LEAKING - 40 CFR 60, Subpart VV

a. [40.483-1(a)]
The permittee may elect to comply with an allowable percentage of valves leaking of equal to or less than 2.0 percent.

b. [40.483-1(b)]
The following requirements shall be met if the permittee wishes to comply with an allowable percentage of valves leaking:

c. The permittee must notify the Director and Administrator that the permittee has elected to comply with the allowable percentage of valves leaking before implementing this alternative standard, as specified in 60.487(b) [see section A.II. in Part II].

i. A performance test as specified in paragraph c. of this section shall be conducted initially upon designation, annually, and at other times requested by the Director and Administrator.

ii. If a valve leak is detected, it shall be repaired in accordance with 60.482-7(d) and (e) [see section A.II. in Part II].

d. [40.483-1(c)]
Performance tests shall be conducted in the following manner:

i. All valves in gas/vapor and light liquid service within the affected facility shall be monitored within 1 week by the methods specified in 60.485(b) [see section A.V. in Part II].

ii. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

iii. The leak percentage shall be determined by dividing the number of valves for which leaks are detected by the number of valves in gas/vapor and light liquid service within the affected facility.

e. [40.483-1(d)]
Permittees who elect to comply with this alternative standard shall not have an affected facility with a leak percentage greater than 2.0 percent.

18. [60.483-2] ALTERNATIVE STANDARDS FOR VALVES - SKIP PERIOD LEAK DETECTION AND REPAIR - 40 CFR 60, Subpart VV

a. [60.483-2(a)]
The permittee may elect to comply with one of the alternative work practices specified in paragraphs b.ii. and b.iii. of this section. The permittee must notify the Director and Administrator before implementing one of the alternative work practices, as specified in 40 CFR 60.487(b).

b. [60.483-2(b)(1)-(6)]

i. The permittee shall comply initially with the requirements for valves in gas/vapor service and valves in light liquid service, as described in 60.482-7 [see section A.II. in Part II].

ii. After 2 consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0, the permittee may begin to skip 1 of the quarterly leak detection periods for the valves in gas/vapor and light liquid service.

iii. After 5 consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0, the permittee may begin to skip 3 of the quarterly leak detection periods for the valves in gas/vapor and light liquid service.

iv. If the percent of valves leaking is greater than 2.0, the permittee shall comply with the requirements as described in 60.482-7 [see section A.II. in Part II], but can again elect to use this section.

v. The percent of valves leaking shall be determined by dividing the sum of valves found leaking during current monitoring and valves for which repair has been delayed by the total number of valves subject to the requirements of this section.

vi. The permittee must keep a record of the percent of valves found leaking during each leak detection period.

19. [60.484] EQUIVALENCE OF MEANS OF EMISSION LIMITATION - 40 CFR 60, Subpart VV

a. [60.484(a)]
Each permittee subject to the provisions of this subpart may apply to the Director and Administrator for determination of equivalence for any means of emission limitation that achieves a reduction in emissions of VOC at least equivalent to the reduction in emissions of VOC achieved by the controls required in this subpart.

b. [60.484(b)(1)-(3)]
Determination of equivalence to the equipment, design, and operational requirements of this subpart will be evaluated by the following guidelines:

i. Each permittee applying for an equivalence determination shall be responsible for collecting and verifying test data to demonstrate equivalence of means of emission limitation.

ii. The Director and Administrator will compare test data for the means of emission limitation to test data for the equipment, design, and operational requirements.

iii. The Director and Administrator may condition the approval of equivalence on requirements that may be necessary to assure operation and maintenance to achieve the same emission reduction as the equipment, design, and operational requirements.

c. [60.484(c)(1)-(6)]
Determination of equivalence to the required work practices in this subpart will be evaluated by the following guidelines:

i. Each permittee applying for a determination of equivalence shall be responsible for collecting and verifying test data to demonstrate equivalence of an equivalent means of emission limitation.

ii. For each affected facility for which a determination of equivalence is requested, the emission reduction achieved by the required work practice shall be demonstrated.

iii. For each affected facility, for which a determination of equivalence is requested, the emission reduction achieved by the equivalent means of emission limitation shall be demonstrated.

iv. Each permittee applying for a determination of equivalence shall commit in writing to work practice(s) that provide for emission reductions equal to or greater than the emission reductions achieved by the required work practice.

v. The Director and Administrator will compare the demonstrated emission reduction for the equivalent means of emission limitation to the demonstrated emission reduction for the required work practices and will consider the commitment in paragraph (c)(4).

vi. The Director and Administrator may condition the approval of equivalence on requirements that may be necessary to assure operation and maintenance to achieve the same emission reduction as the required work practice.

d. [60.484(d)]
The permittee may offer a unique approach to demonstrate the equivalence of any equivalent means of emission limitation.

e. [60.484(e)(1)-(3)]
After a request for determination of equivalence is received, the Administrator will publish a notice in the FEDERAL REGISTER and provide the opportunity for public hearing if the Administrator judges that the request may be approved. After notice and opportunity for public hearing, the Administrator will determine the equivalence of a means of emission limitation and will publish the determination in the FEDERAL REGISTER. Any equivalent means of emission limitations approved under this section shall constitute a required work practice, equipment, design, or operational standard within the meaning of section 111(h)(1) of the Clean Air Act.

f. [60.484(f)(1)-(2)]
Manufacturers of equipment used to control equipment leaks of VOC may apply to the Administrator for determination of equivalence for any equivalent means of emission limitation that achieves a reduction in emissions of VOC achieved by the equipment, design, and operational requirements of this subpart. The Administrator will make an equivalence determination according to the provisions of paragraphs b., c., d., and e. of this section.

20. [61.342] STANDARDS GENERAL - Benzene Wastewater - 40 CFR 61, subpart FF

a. [61.342(a)]
A permittee of a facility at which the total annual benzene quantity from facility waste is less than 10 megagrams per year (Mg/yr) shall be exempt from the requirements of 40 CFR 61.342(b) and (c) [see section A.II. of Part II]. The total annual benzene quantity from facility waste is the sum of the annual benzene quantity for each waste stream at the facility that has a flow-weighted annual average water content greater than 10 percent or that is mixed with water, or other wastes, at any time and the mixture has an annual

average water content greater than 10 percent. The benzene quantity in a waste stream is to be counted only once without multiple counting if other waste streams are mixed with or generated from the original waste stream. Other specific requirements for calculating the total annual benzene waste quantity are as follows:

i. Wastes that are exempted from control under 61.342(c)(2) and 61.342(c)(3) [see section A.II. of Part II] are included in the calculation of the total annual benzene quantity if they have an annual average water content greater than 10 percent, or if they are mixed with water or other wastes at any time and the mixture has an annual average water content greater than 10 percent.

ii. The benzene in a material subject to this subpart that is sold is included in the calculation of the total annual benzene quantity if the material has an annual average water content greater than 10 percent.

iii. Benzene in wastes generated by remediation activities conducted at the facility, such as the excavation of contaminated soil, pumping and treatment of groundwater, and the recovery of product from soil or groundwater, are not included in the calculation of total annual benzene quantity for that facility. If the facility's total annual benzene quantity is 10 Mg/yr or more, wastes generated by remediation activities are subject to the requirements of 40 CFR 61.342(c) through (h). If the facility is managing remediation waste generated offsite, the benzene in this waste shall be included in the calculation of total annual benzene quantity in facility waste, if the waste streams have an annual average water content greater than 10 percent, or if they are mixed with water or other wastes at any time and the mixture has an annual average water content greater than 10 percent.

iv. The total annual benzene quantity is determined based upon the quantity of benzene in the waste before any waste treatment occurs to remove the benzene except as specified in 61.355(c)(1)(i)(A) through (C) [see section A.V. of Part II].

b. [61.342(c)]
Each permittee of a facility at which the total annual benzene quantity from facility waste is equal to or greater than 10 Mg/yr as determined in paragraph a. of this section shall manage and treat the facility waste as follows:

i. [61.342(c)(1)]
For each waste stream that contains benzene, including (but not limited to) organic waste streams that contain less than 10 percent water and aqueous waste streams, even if the wastes are not discharged to an individual drain system, the owner or operator shall:

(a) Remove or destroy the benzene contained in the waste using a treatment process or wastewater treatment system that complies with the standards specified in 61.348 [see section A.II. of Part II] of this subpart.

(b) Comply with the standards specified in 61.343 through 61.347 [see section A.II. of Part II] of subpart FF for each waste management unit that receives or manages the waste stream prior to and during treatment of the waste stream in accordance with paragraph b.i.(a) of this section.

(c) Each waste management unit used to manage or treat waste streams that will be recycled to a process shall comply with the standards specified in 61.343 through 61.347 [see section A.II. of Part II]. Once the waste stream is recycled to a process, including to a tank used for the storage of production process feed, product, or product intermediates, unless this tank is used primarily for the storage of wastes, the material is no longer subject to 61.342(c) [see section A.II. of Part II].

ii. [61.342(c)(2)]
A waste stream is exempt from paragraph61.342(c)(1) [see section A.II. of Part II.] provided that the permittee demonstrates initially and, thereafter, at least once per year that the flow-weighted annual average benzene concentration for the waste stream is less than 10 ppmw as determined by the procedures specified in 61.355(c)(2) or 61.355(c)(3) [see section A.V. of Part II].

iii. [61.342(c)(3)]
A waste stream is exempt from 61.342(c)(1) [see section A.II. of Part II.] of this section provided that the permittee demonstrates initially and, thereafter, at least once per year that the following conditions specified in either 61.342(c)(3)(i) or 61.342(c)(3)(ii) [see section A.II. of Part II.]of this section are met:

(a) the waste stream is process wastewater that has a flow rate less than 0.02 liters per minute or an annual wastewater quantity of less than 10 Mg/yr; or

(b) all of the following conditions are met:

(i) the permittee does not choose to exempt process wastewater under 61.342(c)(3)(i) or paragraph iii.(a) of this section;

(ii) the total annual benzene quantity in all waste streams chosen for exemption in 61.342(c)(3)(ii) or paragraph iii.(b) of this section does not exceed 2.0 Mg/yr as determined in the procedures in 61.355(j) [see section A.V. of Part II]; and

(iii.) the total annual benzene quantity in a waste stream chosen for exemption, including process unit turnaround waste, is determined for the year in which the waste is generated.

c. [61.342(d)]
As a alternative to the requirements specified in sections A.II.20.b and A.II.20.d, the permittee may elect to manage and treat the facility waste as follows when the total annual benzene quantity from facility waste is equal to or greater than 10 Mg/yr as determined in section A.II.20.a:

i. The permittee shall manage and treat facility waste other than process wastewater in accordance with the requirements of section A.II.20.b.i. [61.342(d)(1)]

ii. The permittee shall manage and treat process wastewater in accordance with the following requirements:

(a) Process wastewater shall be treated to achieve a total annual benzene quantity from facility process wastewater less than 1 Mg/yr. Total annual benzene from facility process wastewater shall be determined by adding together the annual benzene quantity at the point of waste generation for each untreated process wastewater stream plus the annual benzene quantity exiting the treatment process for each process wastewater stream treated in accordance with the requirements of section A.II.20.b.i.(a). [61.342(d)(1)(i)]

(b) Each treated process wastewater stream identified in section A.II.20.c.i.(a) is exempt from the requirements of section A.II.20.b.i. [61.342(e)]

d. [61.342(e)]
As an alternative to the requirements specified in sections A.II.20.b and A.II.20.c, the permittee may elect to manage and treat the facility waste as follows when the total annual benzene quantity from facility waste is equal to or greater than 10 Mg/yr as determined in section A.II.20.a:

i. The permittee shall manage and treat facility waste with a flow-weighted annual average water content of less than 10 percent in accordance with the requirements of section A.II.b.i; [61.342(e)(1)] and

ii. The permittee shall manage and treat facility waste (including remediation and process unit turnaround waste) with a flow-weighted annual average water content of 10 percent or greater, on a volume basis as total water, and each waste stream that is mixed with water or wastes at any time such that the resulting mixture has an annual water content greater than 10 percent, in accordance with the following:

(a) The benzene quantity for the wastes described in section A.II.20.d.ii must be equal to or less than 6.0 Mg/yr, as determined in 40 CFR 61.355(k). Wastes as described in section A.II.20.d.ii that are transferred offsite shall be included in the determination of benzene quantity as provided in § 61.355(k). [61.342(e)(1)(i)]

(b) The determination of benzene quantity for each waste stream defined in section A.II.20.d.ii shall be made in accordance with § 61.355(k).

e. [61.342(g)]
Compliance with this subpart will be determined by review of facility records and results from tests and inspections using methods and procedures specified in 61.355 [see section A.V. of Part II] of this subpart.

f. [61.342(h)]
Permission to use an alternative means of compliance to meet the requirements of 40 CFR 61.342 through 61.352 of subpart FF [see part II of the TV permit] may be granted by the Administrator as provided in 40 CFR 61.353 of subpart FF.

21. [61.346] STANDARDS: INDIVIDUAL DRAIN SYSTEMS - 40 CFR 61, subpart FF

a. [61.346(a)]
Except as provided in paragraph b. of this section, the permittee shall meet the following standards for each individual drain system in which waste is placed in accordance with 61.342(c)(1)(ii) [see section A.II. of Part II] of this subpart:

i. [61.346(a)(1)]
The permittee shall install, operate, and maintain on each drain system opening a cover and closed-vent system that routes all organic vapors vented from the drain system to a control device.

(a) The cover shall meet the following requirements:

(i) The cover and all openings (e.g., access hatches, sampling ports) shall be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, initially and thereafter at least once per year by the methods specified in 61.355(h) [see section A.V. of Part II] of this subpart.

(ii) Each opening shall be maintained in a closed, sealed position (e.g., covered by a lid that is gasketed and latched) at all times that waste is in the drain system except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair.

(iii) If the cover and closed-vent system operate such that the individual drain system is maintained at a pressure less than atmospheric pressure, then paragraph a.i.(a)(ii) of this section does not apply to any opening that meets all of the following conditions: (1) the purpose of the opening is to provide dilution air to reduce the explosion hazard; (2) the opening is designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 61.355(h) [see section A.V. of Part II]; and (3) the pressure is monitored continuously to ensure that the pressure in the individual drain system remains below atmospheric pressure.

(b) The closed-vent system and control device shall be designed and operated in accordance with 61.349 [see section A.II. of Part II] of this subpart FF.

ii. [61.346(a)(2)]
Each cover seal, access hatch, and all other openings shall be checked by visual inspection initially and quarterly thereafter to ensure that no cracks or gaps occur and that access hatches and other openings are closed and gasketed properly.

iii. [61.346(a)(3)]
Except as provided in 61.350 [see section A.II. of Part II] of this subpart, when a broken seal or gasket or other problem is identified, or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 15 calendar days after identification.

b. [61.346(b)]
As an alternative to complying with paragraph a. of this section, the permittee may elect to comply with the following requirements:

i. [61.346(b)(1)]
Each drain shall be equipped with water seal controls or a tightly sealed cap or plug.

ii. [61.346(b)(2)]
Each junction box shall be equipped with a cover and may have a vent pipe. The vent pipe shall be at least 90 cm (3 ft) in length and shall not exceed 10.2 cm (4 in) in diameter.

(a) Junction box covers shall have a tight seal around the edge and shall be kept in place at all times, except during inspection and maintenance.

(b) One of the following methods shall be used to control emissions from the junction box vent pipe to the atmosphere:

(i) Equip the junction box with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation. An example of such a system includes use of water seal controls on the junction box. A flow indicator shall be installed, operated, and maintained on each junction box vent pipe to ensure that organic vapors are not vented from the junction box to the atmosphere during normal operation.

(ii) Connect the junction box vent pipe to a closed-vent system and control device in accordance with 61.349 [see section A.II. of Part II] of subpart FF.

iii. [61.346(b)(3)]
Each sewer line shall not be open to the atmosphere and shall be covered or enclosed in a manner so as to have no visual gaps or cracks in joints, seals, or other emission interfaces.

iv. [61.346(b)(4)]
Equipment installed in accordance with paragraphs b.i., b.ii. or b.iii. of this section shall be inspected as follows:

(a) Each drain using water seal controls shall be checked by visual or physical inspection initially and thereafter quarterly for indications of low water levels or other conditions that would reduce the effectiveness of water seal controls.

(b) Each drain using a tightly sealed cap or plug shall be visually inspected initially and thereafter quarterly to ensure caps or plugs are in place and properly installed.

(c) Each junction box shall be visually inspected initially and thereafter quarterly to ensure that the cover is in place and to ensure that the cover has a tight seal around the edge.

(d) The unburied portion of each sewer line shall be visually inspected initially and thereafter quarterly for indication of cracks, gaps, or other problems that could result in benzene emissions.

v. [61.346(b)(5)]
Except as provided in 61.350 [see section A.II. of Part II] of subpart FF, when a broken seal, gap, crack or other problem is identified, first efforts at repair shall be made as soon as practicable, but not later than 15 calendar days after identification.

22. [61.347] STANDARDS: OIL-WATER SEPARATORS

a. [61.347(a)]
Except as provided in 40 CFR 61.352, the permittee shall meet the following standards for each oil-water separator in which waste is placed in accordance with section A.II.20.b.i.(b):

i. [6.347(a)(1)]
The permittee shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the oil-water separator to a control device.

(a) [61.347(a)(1)(i)]
The fixed-roof shall meet the following requirements:

(i) [61.347(a)(1)(i)A]
The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) shall be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and, thereafter, at least once per year by the methods specified in 40 CFR 61.355(h).

(ii) [61.347(a)(1)(i)B]
Each opening shall be maintained in a closed, sealed position (e.g., covered by a lid that is gasketed and hatched) at all times that waste is in the oil-water separator except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair.

(iii) [61.347(a)(1)(i)C]
If the cover and closed-vent system operate such that the oil-water separator is maintained at a pressure less than atmospheric pressure, then a.i.(a)(ii) of this section does not apply to any opening that meets all of the following conditions:

1. [61.347(a)(1)(i)(C)(*1*)]
The purpose of the opening is to provide dilution air to reduce the explosion hazard;

2. [61.347(a)(1)(i)(C)(*2*)]
The opening is designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and, thereafter, at least once per year by the methods specified in 40 CFR 61.355(h); and

3. [61.347(a)(1)(i)(C)(*3*)]

The pressure is monitored continuously to ensure that the pressure in the oil-water separator remains below atmospheric pressure.

(b) [61.347(a)(1)(ii)]
The closed-vent system and control device shall be designed and operated in accordance with the requirements of section A.II.24.

b. [61.347(b)]
Each cover seal, access hatch, and all other openings shall be checked by visual inspection initially and quarterly thereafter to ensure that no cracks or gaps occur between the cover and oil-water separator wall and that access hatches and other openings are closed and gasketed properly.

c. [61.347(b)]
Except as provided in 40 CFR 61.350 of this subpart, when a broken seal or gasket or other problem is identified, or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 15 calendar days after identification.

23. [61.348] STANDARDS: TREATMENT PROCESSES - 40 CFR 61, subpart FF

a. [61.348(a)]
Except as provided in paragraph a.v. of this section, the permittee shall treat the waste stream in accordance with the following requirements:

i. [61.348(a)(1)& (a)(1)(i) - (a)(1)(iii)]
The permittee shall design, install, operate, and maintain a treatment process that either:

(a) removes benzene from the waste stream to a level less than 10 parts per million by weight (ppmw) on a flow-weighted annual average basis;

(b) removes benzene from the waste stream by 99 percent or more on a mass basis; or

(c) destroys benzene in the waste stream by incinerating the waste in a combustion unit that achieves a destruction efficiency of 99 percent or greater for benzene.

ii. [61.348(a)(2)]
Each treatment process complying with paragraphs a.i.(a) or a.i.(b) of this section shall be designed and operated in accordance with the appropriate waste management unit standards specified in 61.343 through 61.347 [see section A.II. of part II] of subpart FF. For example, if a treatment process is a tank, then the permittee shall comply with 40 CFR 61.343 of subpart FF.

iii. [61.348(a)(3)]
For the purpose of complying with the requirements specified in paragraph a.i.(a) of this section, the intentional or unintentional reduction in the benzene concentration of a waste stream by dilution of the waste stream with other wastes or materials is not allowed.

iv. [61.348(a)(4)]
The permittee may aggregate or mix together individual waste streams to create a combined waste stream for the purpose of facilitating treatment of waste to comply with the requirements of paragraph a.i. of this section except as provided in paragraph a.v. of this section.

v. [61.348(a)(5)]
If the permittee aggregates or mixes any combination of process wastewater, product tank drawdown, or landfill leachate subject to 61.342(c)(1) of subpart FF [see section A.II. of Part II] together with other waste streams to create a combined waste stream for the purpose of facilitating management or treatment of waste in a wastewater treatment system, then the wastewater treatment system shall be operated in accordance with paragraph b. of this section. These provisions apply to above-ground wastewater treatment systems as well as those that are at or below ground level.

b. [61.348(b)]
Except for facilities complying with 40 CFR 61.342(e), the permittee that aggregates or mixes individual waste streams as defined in paragraph a.v. of this section for management and treatment in a wastewater treatment system shall comply with the following requirements:

i. [61.348(b)(1)]
The permittee shall design and operate each waste management unit that comprises the wastewater treatment system in accordance with the appropriate standards specified in 61.343 through 61.347 of subpart FF [see section A.II. of Part II].

ii. [61.348(b)(2)]
The provisions of paragraph b.i. of this section do not apply to any waste management unit that the permittee demonstrates meets the following conditions initially and, thereafter, at least once per year:

(a) the benzene content of each waste stream entering the waste management unit is less than 10 ppmw on a flow-weighted annual average basis as determined by the procedures specified in 61.355(c) [see section A.V. of Part II] of this subpart; and

(b) the total annual benzene quantity contained in all waste streams managed or treated in exempt waste management units comprising the facility wastewater treatment systems is less than 1 Mg/yr. For this determination, total annual benzene quantity shall be calculated as follows:

(i) The total annual benzene quantity shall be calculated as the sum of the individual benzene quantities determined at each location where a waste stream first enters an exempt waste management unit. The benzene quantity discharged from an exempt waste management unit shall not be included in this calculation.

(ii) The annual benzene quantity in a waste stream managed or treated in an enhanced biodegradation unit shall not be included in the calculation of the total annual benzene quantity, if the enhanced biodegradation unit is the first exempt unit in which the waste is managed or treated. A unit shall be considered enhanced biodegradation if it is a suspended-growth process that generates biomass, uses recycled biomass, and periodically removes biomass from the process. An enhanced biodegradation unit typically operates at a food-to-microorganism ratio in the range of 0.05 to 1.0 kg of biological oxygen demand per kg of biomass per day, a mixed liquor suspended solids ratio in the range of 1 to 8 grams per liter, and a residence time in the range of 3 to 36 hours.

c. [61.348(c)]
The permittee shall demonstrate that each treatment process or wastewater treatment system unit, except as provided in 40 CFR 61.348(d), achieves the appropriate conditions specified in paragraphs a. or b. of this section in accordance with the following requirements:

i. [61.348(c)(1)]
engineering calculations shall be performed in accordance with the requirements specified in 61.356(e) [see section A.III. of Part II] of this subpart; or

ii. [61.348(c)(2)]
performance tests shall be conducted using the test methods and procedures that meet the requirements specified in 61.355 [see section A.V. of Part II] of this subpart.

d. [61.348(e)]
Except as specified in paragraph e.iii. of this section, if the treatment process or wastewater treatment system unit has any openings (e.g., access doors, hatches, etc.), all such openings shall be sealed (e.g., gasketed, latched, etc.) and kept closed at all times when waste is being treated, except during inspection and maintenance.

i. [61.348(e)(1)]
Each seal, access door, and all other openings shall be checked by visual inspections initially and quarterly thereafter to ensure that no cracks or gaps occur and that openings are closed and gasketed properly.

ii. [61.348(e)(2)]
Except as provided in 61.350 [see section A.II. of Part II] of this subpart, when a broken seal or gasket or other problem is identified, first efforts at repair shall be made as soon as practicable, but not later than 15 calendar days after identification.

iii. [61.348(e)(3)]
If the cover and closed-vent system operate such that the treatment process and wastewater treatment system unit are maintained at a pressure less than atmospheric pressure, the permittee may operate the system with an opening that is not sealed and kept closed at all times if the following conditions are met:

(a) the purpose of the opening is to provide dilution air to reduce the explosion hazard;

(b) the opening is designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 61.355(h) [see section A.V. in Part II]; and

(c) the pressure is monitored continuously to ensure that the pressure in the treatment process and wastewater treatment system unit remain below atmospheric pressure.

e. [61.348(f)]
Except for treatment processes complying with paragraph 40 CFR 61.348(d) of subpart FF, the Director and/or Administrator may request at any time a permittee demonstrates that a treatment process or wastewater treatment system unit meets the applicable requirements specified in paragraphs a. or b. of this section by conducting a performance test using the test methods and procedures as required in 61.355 [see section A.V. of Part II] of this subpart.

f. [61.348(g)]
The permittee of a treatment process or wastewater treatment system unit that is used to comply with the provisions of this section shall monitor the unit in accordance with the applicable requirements in 61.354 [see section A.III. of Part II] of this subpart.

24. [61.349] STANDARDS: CLOSED-VENT SYSTEMS AND CONTROL DEVICES - 40 CFR 61, subpart FF

a. [61.349(a)]
For each closed-vent system and control device used to comply with standards in accordance with sections 61.343 through 61.348 of subpart FF [see section A.II. of Part II], the permittee shall properly design, install, operate, and maintain the closed-vent system and control device in accordance with the following requirements:
[61.349(a)(1)(i)-(a)(1)(iv)]

i. The closed-vent system shall:

(a) Be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 61.355(h) [see section A.V. in Part II] of this subpart.

(b) Vent systems that contain any bypass line that could divert the vent stream away from a control device used to comply with the provisions of this subpart shall install, maintain, and operate according to the manufacturer's specifications a flow indicator that provides a record of vent stream flow away from the control device at least once every 15 minutes, except as provided in paragraph a.i.(b)(ii) of this section.

(i) The flow indicator shall be installed at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere.

(ii) Where the bypass line valve is secured in the closed position with a car-seal or a lock-and-key type configuration, a flow indicator is not required.

(c) All gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

(d) For each closed-vent system complying with paragraph a. of this section, one or more devices which vent directly to the atmosphere may be used on the closed-vent system provided each device remains in a closed, sealed position during normal operations except when the device needs to open to prevent physical damage or permanent deformation of the closed-vent system resulting from malfunction of the unit in accordance with good engineering and safety practices for handling flammable, explosive, or other hazardous materials.

ii. [61.349(a)(2) & (a)(2)(ii)]
The control device shall be designed and operated in accordance with the following condition: a vapor recovery system (e.g., a carbon adsorption system or a condenser) shall recover or control the organic emissions vented to it with an

efficiency of 95 weight percent or greater, or shall recover or control the benzene emissions vented to it with an efficiency of 98 weight percent or greater.

iii. A flare shall comply with the requirements of 40 CFR 60.18.

b. [61.349(b)]
Each closed-vent system and control device used to comply with 40 CFR 61 subpart FF, shall be operated at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device.

c. [61.349(c)]
The permittee shall demonstrate that each control device, except for a flare, achieves the appropriate conditions specified in paragraph a.ii. of this section by using one of the following methods:

i. engineering calculations in accordance with requirements specified in 61.356(f) [see section A.IV. of Part II] of this subpart; or

ii. performance tests conducted using the test methods and procedures that meet the requirements specified in 61.355 [see section A.V. of Part II] of this subpart.

d. [61.349(e)]
The Director and/or Administrator may request at any time a permittee to demonstrate that a control device meets the applicable conditions specified in paragraph a.ii. of this section by conducting a performance test using the test methods and procedures as required in 61.355 [see section A.V. of Part II].

e. [61.349(f)]
Each closed-vent system and control device shall be visually inspected initially and quarterly thereafter. The visual inspection shall include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections.

f. [61.349(g)]
Except as provided in 61.350 [see section AII. of Part II] of this subpart, if visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, a first effort to repair the closed-vent system and control device shall be made as soon as practicable, but no later than 5 calendar days after detection. Repair shall be completed no later than 15 calendar days after the emissions are detected or the visible defect is observed.

g. [61.349(h)]

The permittee of a control device that is used to comply with the provisions of this section shall monitor the control device in accordance with 61.354(c) [see section A.III. of Part II] of this subpart.

25. [61.350] STANDARDS: DELAY OF REPAIR - 40 CFR 61, subpart FF

    a. [61.350(a)]
    Delay of repair of facilities or units that are subject to the provisions of this subpart will be allowed if the repair is technically impossible without a complete or partial facility or unit shutdown.

    b. [61.350(b)]
    Repair of such equipment shall occur before the end of the next facility or unit shutdown.

26. [61.351] ALTERNATIVE STANDARDS FOR TANKS - 40 CFR 61, subpart FF

    a. [61.351(a)(1)-(3)]
    As an alternative to the standards for tanks specified in 40 CFR 61.343 of subpart FF, the permittee may elect to comply with one of the following:

        i. a fixed roof and internal floating roof meeting the requirements in 40 CFR 60.112b(a)(1);

        ii. an external floating roof meeting the requirements of 40 CFR 60.112b(a)(2); or

        iii. an alternative means of emission limitation as described in 40 CFR 60.114b.

    b. [61.351(b)]
    If the permittee elects to comply with the provisions of this section, then the permittee is exempt from the provisions of 40 CFR 61.343 of this subpart applicable to the same facilities.

27. [61.352]
    Alternative standards for oil-water separators.

    a. As an alternative to the standards for oil-water separators specified in section A.II.22, the permittee may elect to comply with one of the following:

        i. A floating roof meeting the requirements in 40 CFR 60.693-2(a); or

        ii. An alternative means of emission limitation as described in 40 CFR 60.694.

    b. For portions of the oil-water separator where it is infeasible to construct and operate a floating roof, such as over the weir mechanism, a fixed roof vented to a vapor control

device that meets the requirements in sections A.II.22 and A.II.24 shall be installed and operated.

c. Except as provided in section A.II.27.b, if the permittee elects to comply with the provisions of this section, then the permittee is exempt from the provisions in section A.II.22 applicable to the same facilities.

28. In accordance with OAC rule 3745-21-09(T), the permittee shall comply with the following requirements, at a minimum, for all emission units:

a. The permittee shall repair and retest any leaking component, which is tagged and identified, as soon as possible but no later than 15 days after the leak is found unless the leaking component cannot be repaired until a process unit turnaround occurs.

III Monitoring and/or Record Keeping Requirements

1. [60.482-10(l)] STANDARDS: CLOSED VENT SYSTEMS AND CONTROL DEVICES - 40 CFR 60, Subpart VV
The permittee shall record the information specified in paragraphs 1.a. through 1.e. of this section.

a. [60.482-10(l)(1)]
Identification of all parts of the closed vent system that are designated as unsafe to inspect, an explanation of why the equipment is unsafe to inspect, and the plan for inspecting the equipment.

b. [60.482-10(l)(2)]
Identification of all parts of the closed vent system that are designated as difficult to inspect, an explanation of why the equipment is difficult to inspect, and the plan for inspecting the equipment.

c. [60.482-10(l)(3)]
For each inspection during which a leak is detected, a record of the information specified in 60.486(c) [see section A.III. of Part II].

d. [60.482-10(l)(4)]
For each inspection conducted in accordance with 60.485(b) [see section A.V. of Part II] during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.

e. [60.482-10(l)(5)]
For each visual inspection conducted in accordance with section 60.482-10(f)(i) [see section A.II. of Part II] during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.

2. [60.486] RECORD KEEPING REQUIREMENTS, EQUIPMENT LEAKS - 40 CFR 60, Subpart VV

a. [60.486(a)]
Each permittee subject to the provisions of 40 CFR 60, Subpart VV shall comply with the record keeping requirements of this section. A permittee of more than one affected facility subject to the provisions of this subpart may comply with the record keeping requirements for these facilities in one record keeping system if the system identifies each record by each facility.

b. [60.486(b)]
When each leak is detected as specified in 60.482-2, 60.482-3, 60.482-7, 60.482-8 and 40 CFR 60.483-2 [see section A.II of Part II], the following requirements apply:

i. [60.486(b)(1)]
A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment.

ii. [60.486(b)(2)]
The identification on a valve may be removed after it has been monitored for 2 successive months as specified in 60.482-7(c) [see section A.II. of Part II] and no leak has been detected during those 2 months.

iii. [60.486(b)(3)]
The identification on equipment except on a valve, may be removed after it has been repaired.

c. [60.486(c)]
When each leak is detected as specified in 60.482-2, 60.482-3, 60.482-7, 60.482-8 and 40 CFR 60.483-2 [see section A.II of Part II], the following information shall be recorded in a log and shall be kept for 2 years in a readily accessible location:

i. [60.486(c)(1)]
The instrument and operator identification numbers and the equipment identification number.

ii. [60.486(c)(2)]
The date the leak was detected and the dates of each attempt to repair the leak.

iii. [60.486(c)(3)]
Repair methods applied in each attempt to repair the leak.

iv. [60.486(c)(4)]

"Above 10,000" if the maximum instrument reading measured by the methods specified in 60.485(a) [see section A.V. of Part II] after each repair attempt is equal to or greater than 10,000 ppm.

v. [60.486(c)(5)]
"Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.

vi. [60.486(c)(6)]
The signature of the person (or designate) whose decision it was that repair could not be effected without a process shutdown.

vii. [60.486(c)(7)]
The expected date of successful repair of the leak if a leak is not repaired within 15 days.

viii. [60.486(c)(8)]
Dates of process unit shutdown that occur while the equipment is unrepaired.

ix. [60.486(c)(9)]
The date of successful repair of the leak.

d. [60.486(d)]
The following information pertaining to the design requirements for closed vent systems and control devices described in 60.482-10 [see section A.II. of Part II] shall be recorded and kept in a readily accessible location:

i. [60.486(d)(1)]
Detailed schematics, design specifications, and piping and instrumentation diagrams.

ii. [60.486(d)(2)]
The dates and descriptions of any changes in the design specifications.

iii. [60.486(d)(3)]
A description of the parameter or parameters monitored, as required in 60.482-10(e) [see section A.II. of Part II], to ensure that control devices are operated and maintained in conformance with their design and an explanation of why that parameter (or parameters) was selected for the monitoring.

iv. [60.486(d)(4)]
Periods when the closed vent systems and control devices required in 60.482-2, 60.482-3, 60.482-4, and 60.482-5 [see section A.II. of Part II] are not operated as designed, including periods when a flare pilot light does not have a flame.

v. [60.486(d)(5)]
Dates of startups and shutdowns of the closed vent systems and control devices required in 60.482-2, 60.482-3, 60.482-4, and 60.482-5 [see section A.II. of Part II].

e. [60.486(e)]
The following information pertaining to all equipment subject to the requirements in 60.482-1 to 60.482-10 [see section A.II. of Part II] shall be recorded in a log that is kept in a readily accessible location:

i. [60.486(e)(1)]
A list of identification numbers for equipment subject to the requirements of 40 CFR 60, Subpart VV.

ii. [60.486(e)(2)]
A list of identification numbers for equipment that are designated for no detectable emissions under the provisions of 60.482-2(e), 60.482-3(i) and 60.482-7(f) [see section A.II. of Part II]. The designation of equipment subject to the requirements of 60.482-2(e), 60.482-3(i), or 60.482-7(f) [see section A.II. of Part II] shall be signed by the permittee.

iii. [60.486(e)(3)]
A list of equipment identification numbers for pressure relief devices required to comply with 60.482-4 [see section A.II. of Part II].

iv. [60.486(e)(4)]

(a) The dates of each compliance test as required in 60.482-2(e), 60.482-3(i), 60.482-4, and 60.482-7(f) [see section A.II. of Part II].

(b) The background level measured during each compliance test.

(c) The maximum instrument reading measured at the equipment during each compliance test.

v. [60.486(e)(5)]
A list of identification numbers for equipment in vacuum service.

f. [60.486(f)]
The following information pertaining to all valves subject to the requirements of 60.482-7(g) and (h) [see section A.II. in Part II] shall be recorded in a log that is kept in a readily accessible location:

i. [60.486(f)(1)]

A list of identification numbers for valves that are designated as unsafe-to-monitor, an explanation for each valve stating why the valve is unsafe-to-monitor, and the plan for monitoring each valve.

ii. [60.486(f)(2)]
A list of identification numbers for valves that are designated as difficult-to-monitor, an explanation for each valve stating why the valve is difficult-to-monitor, and the schedule for monitoring each value.

g. [60.486(g)]
The following information shall be recorded for valves complying with 40 CFR 60.483-2:

i. A schedule of monitoring.

ii. The percent of valves found leaking during each monitoring period.

h. [60.486(h)(1)-(2)]
The following information shall be recorded in a log that is kept in a readily accessible location. The design criterion required in 60.482-2(d)(5) and 60.482-3(e)(2) [see section A.II. in Part II], and an explanation of the design criterion; along with any changes to this criterion and the reasons for the changes.

i. [60.486(i)(1)-(3)]
The following information shall be recorded in a log that is kept in a readily accessible location for use in determining exemptions as provided in 40 CFR 60.480(d):

i. an analysis demonstrating the design capacity of the affected facility;

ii. a statement listing the feed or raw materials and products from the affected facilities and an analysis demonstrating whether these chemicals are heavy liquids or beverage alcohol; and

iii. an analysis demonstrating that equipment is not in VOC service.

j. [60.486(j)]
Information and data used to demonstrate that a piece of equipment is not in VOC service shall be recorded in a log that is kept in a readily accessible location.

k. [60.486(k)]
The provisions of 40 CFR 60.7(b) and (d) do not apply to affected facilities subject to 40 CFR 60, Subpart VV.

3. [61.354] MONITORING OF OPERATIONS - 40 CFR 61, subpart FF

a. [61.354(a)]
Except for a treatment process or waste stream complying with 40 CFR 61.348(d), the permittee shall monitor each treatment process or wastewater treatment system unit to ensure the unit is properly operated and maintained by one of the following monitoring procedures:

i. [61.354(a)(1)]
Measure the benzene concentration of the waste stream exiting the treatment process complying with 61.348(a)(1)(i) [see section A.II. of Part II] at least once per month by collecting and analyzing one or more samples using the procedures specified in 61.355(c)(3) [see section A.V. in Part II].

ii. [61.354(a)(2)]
Install, calibrate, operate, and maintain according to manufacturer's specifications equipment to continuously monitor and record a process parameter (or parameters) for the treatment process or wastewater treatment system unit that indicates proper system operation. The permittee shall inspect at least once each operating day the data recorded by the monitoring equipment (e.g., temperature monitor or flow indicator) to ensure that the unit is operating properly.

b. [61.354(b)]
If the permittee complies with the requirements of 61.348(b) [see section A.II. of Part II], then the permittee shall monitor each wastewater treatment system to ensure the unit is properly operated and maintained by the appropriate monitoring procedure as follows:

i. [61.354(b)(1)]
For the first exempt waste management unit in each waste treatment train, other than an enhanced biodegradation unit, measure the flow rate, using the procedures of 61.355(b) [see section A.V. in Part II], and the benzene concentration of each waste stream entering the unit at least once per month by collecting and analyzing one or more samples using the procedures specified in 61.355(c)(3) [see section A.V. in Part II].

ii. [61.345(b)(2)]
For each enhanced biodegradation unit that is the first exempt waste management unit in a treatment train, measure the benzene concentration of each waste stream entering the unit at least once per month by collecting and analyzing one or more samples using the procedures specified in 61.355(c)(3) [see section A.V. in Part II].

c. [61.354(d)]
For a carbon adsorption system that does not regenerate the carbon bed directly on site in the control device (e.g., a carbon canister), either the concentration level of the organic compounds or the concentration level of benzene in the exhaust vent stream from the carbon adsorption system shall be monitored on a regular schedule, and the existing

carbon shall be replaced with fresh carbon immediately when carbon breakthrough is indicated. The device shall be monitored on a daily basis or at intervals no greater than 20 percent of the design carbon replacement interval, whichever is greater. As an alternative to conducting this monitoring, the permittee may replace the carbon in the carbon adsorption system with fresh carbon at a regular predetermined time interval that is less than the carbon replacement interval that is determined by the maximum design flow rate and either the organic concentration or the benzene concentration in the gas stream vented to the carbon adsorption system.

d. [61.354(c)]
The permittee shall install, calibrate, maintain, and operate according to the manufacturer's specifications a device to continuously monitor the control device operation as specified in the following paragraphs, unless alternative monitoring procedures or requirements are approved for that facility by the Administrator. The permittee shall inspect at least once each operating day the data recorded by the monitoring equipment (e.g., temperature monitor or flow indicator) to ensure that the control device is operating properly.

i. [61.354(c)(3)]
For a flare, a monitoring device in accordance with 40 CFR 60.18(f)(2) equipped with a continuous recorder.

ii. [61.354(c)(7)]
For a carbon adsorption system that regenerates the carbon bed directly in the control device such as a fixed-bed carbon adsorber, either:

(a) A monitoring device equipped with a continuous recorder to measure either the concentration level of the organic compounds or the benzene concentration level in the exhaust vent stream from the carbon bed; or

(b) A monitoring device equipped with a continuous recorder to measure a parameter that indicates the carbon bed is regenerated on a regular, predetermined time cycle.

iii. [61.354(c)(8)]
For a vapor recovery system other than a condenser or carbon adsorption system, a monitoring device equipped with a continuous recorder to measure either the concentration level of the organic compounds or the benzene concentration level in the exhaust vent stream from the control device.

e. [61.354(d)]
For a carbon adsorption system that does not regenerate the carbon bed directly on site in the control device (e.g., a carbon canister), either the concentration level of the organic compounds or the concentration level of benzene in the exhaust vent stream from the carbon adsorption system shall be monitored on a regular schedule, and the existing

carbon shall be replaced with fresh carbon immediately when carbon breakthrough is indicated. The device shall be monitored on a daily basis or at intervals no greater than 20 percent of the design carbon replacement interval, whichever is greater. As an alternative to conducting this monitoring, an owner or operator may replace the carbon in the carbon adsorption system with fresh carbon at a regular predetermined time interval that is less than the carbon replacement interval that is determined by the maximum design flow rate and either the organic concentration or the benzene concentration in the gas stream vented to the carbon adsorption system.

f. [61.354(e)]
An alternative operation or process parameter may be monitored if it can be demonstrated that another parameter will ensure that the control device is operated in conformance with these standards and the control device's design specifications.

g. [61.354(f)]
If the permittee uses a closed-vent system that contains any bypass line that could divert a vent stream from a control device used to comply with this section, the permittee shall do the following:

i. Visually inspect the bypass line valve at least once every month, checking the position of the valve and the condition of the carbon seal or closure mechanism required under A.III.24.a.i.b to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line.

ii. Visually inspect the readings from each flow monitoring device required by section A.III.24.a.i.b at least once each operating day to check that vapors are being routed to the control device as required.

h. [61.354(g)
Each owner or operator who uses a system for emission control that is maintained at a pressure less than atmospheric pressure with openings to provide dilution air shall install, calibrate, maintain, and operate according to the manufacturer's specifications a device equipped with a continuous recorder to monitor the pressure in the unit to ensure that it is less than atmospheric pressure.

4. [61.356] RECORD KEEPING REQUIREMENTS - 40 CFR 61, subpart FF

a. [61.356(a)]
Each permittee of a facility subject to the provisions of this subpart shall comply with the record keeping requirements of this section. Each record shall be maintained in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified.

b. [61.356(b)]
Each permittee shall maintain records that identify each waste stream at the facility subject to this subpart, and indicate whether or not the waste stream is controlled for benzene emissions in accordance with this subpart. In addition, the permittee shall maintain the following records:

i. [61.356(b)(1)]
For each waste stream not controlled for benzene emissions in accordance with this subpart, the records shall include all test results, measurements, calculations, and other documentation used to determine the following information for the waste stream: waste stream identification, water content, whether or not the waste stream is a process wastewater stream, annual waste quantity, range of benzene concentrations, annual average flow-weighted benzene concentration, and annual benzene quantity.

ii. [61.356(b)(2)]
For each waste stream exempt from 61.342(c)(1) [see section A.II. in Part II] in accordance with 61.342(c)(3) [see section A.II. in Part II], the records shall include:

(a) all measurements, calculations, and other documentation used to determine that the continuous flow of process wastewater is less than 0.02 liters per minute or the annual waste quantity of process wastewater is less than 10 Mg/yr in accordance with 61.342(c)(3)(i) [see section A.II. in Part II], or

(b) all measurements, calculations, and other documentation used to determine that the sum of the total annual benzene quantity in all exempt waste streams does not exceed 2.0 Mg/yr in accordance with 61.342(c)(3)(ii) [see section A.II. of Part II].

iii. [61.356(b)(3)]
For each facility where process wastewater streams are controlled for benzene emissions, the records shall include for each treated process wastewater stream all measurements, calculations, and other documentation used to determine the annual benzene quantity in the process wastewater stream exiting the treatment process.

iv. [61.356(b)(4)]
For each facility where waste streams are controlled for benzene emissions, the records shall include for each waste stream all measurements, including the locations of the measurements, calculations, and other documentation used to determine that the total benzene quantity does not exceed 6.0 Mg/yr.

v. [61.356(b)(5)]
For each facility where the annual waste quantity for process unit turnaround waste is determined in accordance with 61.355(b)(5) [see section A.V. in Part II], the

records shall include all test results, measurements, calculations, and other documentation used to determine the following information: identification of each process unit at the facility that undergoes turnarounds, the date of the most recent turnaround for each process unit, identification of each process unit turnaround waste, the water content of each process unit turnaround waste, the annual waste quantity determined in accordance with 61.355(b)(5) [see section A.V. in Part II], the range of benzene concentrations in the waste, the annual average flow-weighted benzene concentration of the waste, and the annual benzene quantity calculated in accordance with 61.355(a)(1)(iii) [see section A.V. in Part II] of this section.

vi. [61.356(b)(6)]
For each facility where wastewater streams are controlled for benzene emissions in accordance with 61.348(b)(2) [see section A.II. in Part II], the records shall include all measurements, calculations, and other documentation used to determine the annual benzene content of the waste streams and the total annual benzene quantity contained in all waste streams managed or treated in exempt waste management units.

c. [61.356(d)]
The permittee using control equipment in accordance with 61.343 through 61.347 [see section A.II. of Part II] shall maintain engineering design documentation for all control equipment that is installed on the waste management unit. The documentation shall be retained for the life of the control equipment. If a control device is used, then the permittee shall maintain the control device records required by 61.356(f), paragraph e. of this section.

d. [61.356(e)]
The permittee using a treatment process or wastewater treatment system unit in accordance with 61.348 [see section A.II. of Part II] of this subpart shall maintain the following records. The documentation shall be retained for the life of the unit.

i. [61.356(e)(1)]
A statement signed and dated by the permittee certifying that the unit is designed to operate at the documented performance level when the waste stream entering the unit is at the highest waste stream flow rate and benzene content expected to occur.

ii. [61.356(e)(2)]
If engineering calculations are used to determine treatment process or wastewater treatment system unit performance, then the permittee shall maintain the complete design analysis for the unit. The design analysis shall include for example the following information: design specifications, drawings, schematics, piping and instrumentation diagrams, and other documentation necessary to demonstrate the unit performance.

iii. [61.356(e)(3)]
If performance tests are used to determine treatment process or wastewater treatment system unit performance, then the permittee shall maintain all the following test information necessary to demonstrate the unit performance.

(a) A description of the unit including the following information: type of treatment process; manufacturer name and model number; and for each waste stream entering and exiting the unit, the waste stream type (e.g., process wastewater, sludge, slurry, etc.), and the design flow rate and benzene content.

(b) Documentation describing the test protocol and the means by which sampling variability and analytical variability were accounted for in the determination of the unit performance. The description of the test protocol shall include the following information: sampling locations, sampling method, sampling frequency, and analytical procedures used for sample analysis.

(c) Records of unit operating conditions during each test run including all key process parameters.

(d) All test results.

iv. [61.356(e)(4)]
If a control device is used, then the permittee shall maintain the control device records required by 61.356(f), paragraph e., of this section.

e. [61.356(f)]
The permittee using a closed-vent system and control device in accordance with 61.349 [see section A.II. of Part II] of this subpart shall maintain the following records. The documentation shall be retained for the life of the control device.

i. [61.356(f)(1)]
A statement signed and dated by the permittee certifying that the closed-vent system and control device are designed to operate at the documented performance level when the waste management unit vented to the control device is or would be operating at the highest load or capacity expected to occur.

ii. [61.345(f)(2)]
If engineering calculations are used to determine control device performance in accordance with 61.349(c) [see section A.II. of Part II], then a design analysis for the control device that includes for example: specifications, drawings, schematics, and piping and instrumentation diagrams prepared by the permittee, or the control device manufacturer or vendor that describe the control device design based on acceptable engineering texts. The design analysis shall address the following vent stream characteristics and control device operating parameters:

(a) [61.356(f)(2)(i)(F)]
For a carbon adsorption system that regenerates the carbon bed directly on-site in the control device such as a fixed-bed adsorber, the design analysis shall consider the vent stream composition, constituent concentration, flow rate, relative humidity, and temperature. The design analysis shall also establish the design exhaust vent stream organic compound concentration level or the design exhaust vent stream benzene concentration level, number and capacity of carbon beds, type and working capacity of activated carbon used for carbon beds, design total steam flow over the period of each complete carbon bed regeneration cycle, duration of the carbon bed steaming and cooling/drying cycles, design carbon bed temperature after regeneration, design carbon bed regeneration time, and design service life of carbon.

(b) [61.356(f)(2)(i)(G)]
For a carbon adsorption system that does not regenerate the carbon bed directly on-site in the control device, such as a carbon canister, the design analysis shall consider the vent stream composition, constituent concentration, flow rate, relative humidity, and temperature. The design analysis shall also establish the design exhaust vent stream organic compound concentration level or the design exhaust vent stream benzene concentration level, capacity of carbon bed, type and working capacity of activated carbon used for carbon bed, and design carbon replacement interval based on the total carbon working capacity of the control device and source operating schedule.

(c) For a flare, the design analysis shall consider the vent stream composition constituent concentrations and flare rate. The design analysis shall also consider the requirements specified in 40 CFR 60.18.

iii. [61.356(f)(3)]
If performance tests are used to determine control device performance in accordance with 61.349(c) [see section A.II. of Part II] of this subpart:

(a) A description of how it is determined that the test is conducted when the waste management unit or treatment process is operating at the highest load or capacity level. This description shall include the estimated or design flow rate and organic content of each vent stream and definition of the acceptable operating ranges of key process and control parameters during the test program.

(b) A description of the control device including the type of control device, control device manufacturer's name and model number, control device dimensions, capacity, and construction materials.

(c) A detailed description of sampling and monitoring procedures, including sampling and monitoring locations in the system, the equipment to be used, sampling and monitoring frequency, and planned analytical procedures for sample analysis.

(d) All test results.

f. [61.356(g)]
The permittee shall maintain a record for each visual inspection required by 61.343 through 61.347 [see section A.II. of Part II] of this subpart that identifies a problem (such as a broken seal, gap or other problem) which could result in benzene emissions. The record shall include the date of the inspection, waste management unit and control equipment location where the problem is identified, a description of the problem, a description of the corrective action taken, and the date the corrective action was completed.

g. [61.356(h)]
The permittee shall maintain a record for each test of no detectable emissions required by 61.343 through 61.347 and 61.349 [see section A.II. of Part II] of this subpart. The record shall include the following information: date the test is performed, background level measured during test, and maximum concentration indicated by the instrument reading measured for each potential leak interface. If detectable emissions are measured at a leak interface, then the record shall also include the waste management unit, control equipment, and leak interface location where detectable emissions were measured, a description of the problem, a description of the corrective action taken, and the date the corrective action was completed.

h. [61.356(i)]
For each treatment process and wastewater treatment system unit operated to comply with 61.348 [see section A.II. of Part II], the permittee shall maintain documentation that includes the following information regarding the unit operation:

i. [61.356(i)(1)]
Dates of startup and shutdown of the unit.

ii. [61.356(i)(2)]
If measurements of waste stream benzene concentration are performed in accordance with 61.354(a)(1) [see section A.III. of Part II] of this subpart, the permittee shall maintain records that include the date each test is performed and all test results.

iii. [61.356(i)(3)]
If a process parameter is continuously monitored in accordance with 61.354(a)(2) [see section A.III. of Part II] of this subpart, the permittee shall maintain records that

include a description of the operating parameter (or parameters) to be monitored to ensure that the unit will be operated in conformance with these standards and the unit's design specifications, and an explanation of the criteria used for selection of that parameter (or parameters). This documentation shall be kept for the life of the unit.

iv. [61.356(i)(4)]
If measurements of waste stream benzene concentration are performed in accordance with 61.354(b) [see section A.III. of Part II], the permittee shall maintain records that include the date each test is performed and all test results.

v. [61.356(i)(5)]
Periods when the unit is not operated as designed.

i. [61.356(j)]
For each control device, the permittee shall maintain documentation that includes the following information regarding the control device operation:

i. [61.356(j)(1)]
Dates of startup and shutdown of the closed-vent system and control device.

ii. [61.356(j)(2)]
A description of the operating parameter (or parameters) to be monitored to ensure that the control device will be operated in conformance with these standards and the control device's design specifications and an explanation of the criteria used for selection of that parameter (or parameters). This documentation shall be kept for the life of the control device.

iii. [61.356(j)(3)]
Periods when the closed-vent system and control device are not operated as designed including all periods and the duration when:

(a) Any valve car-seal or closure mechanism required under 61.349(a)(1)(ii) [see section A.II. in Part II] is broken or the by-pass line valve position has changed.

(b) The flow monitoring devices required under 61.349(a)(1)(ii) [see section A.II. in Part II] indicate that vapors are not routed to the control device as required.

iv. [61.356(j)(9)]
If a carbon adsorber is used, then the permittee shall maintain records from the monitoring device of the concentration of organics or the concentration of benzene in the control device outlet gas stream. If the concentration of organics or the concentration of benzene in the control device outlet gas stream is monitored, then

the permittee shall record all 3-hour periods of operation during which the concentration of organics or the concentration of benzene in the exhaust stream is more than 20 percent greater than the design value. If the carbon bed regeneration interval is monitored, then the permittee shall record each occurrence when the vent stream continues to flow through the control device beyond the predetermined carbon bed regeneration time.

v. [61.356(j)(10)]
If a carbon adsorber that is not regenerated directly on site in the control device is used, then the permittee shall maintain records of dates and times when the control device is monitored, when breakthrough is measured, and shall record the date and time then the existing carbon in the control device is replaced with fresh carbon.

vi. If a flare is used, then the pemittee shall maintain continuous records of all periods during which the pilot flame is absent.

j. [61.356(k)]
The permittee who elects to install and operate the control equipment in 61.351 [see A.II. in Part II] of this subpart shall comply with the record keeping requirements in 40 CFR 60.115b.

k. [61.356(l)]
If the permittee elects to install and operate the control equipment in 40 CFR 61.352, he shall maintain records of the following:

i. The date, location and corrective action for each visual inspection required by 40 CFR 60.693-2(a)(5), during which a broken seal, gap or other problem is identified that could result in benzene emissions.

ii. Results of the seal gap measurements required by 40 CFR 60.693-2(a).

5. [63.654(a)] WASTEWATER PROVISIONS REPORTING and RECORD KEEPING - 40 CFR 63, Subpart CC
Each permittee subject to the wastewater provisions in 63.647 [see section A.I.2. and A.II. in Part II.] shall comply with the record keeping and reporting provisions in 40 CFR 61.356 and 61.357 (subpart FF) unless they are complying with the wastewater provisions specified in paragraph (o)(2)(ii) of 40 CFR 63.640 (subpart CC). There are no additional reporting and record keeping requirements for wastewater under this subpart unless a wastewater stream is included in an emissions average. Record keeping and reporting for emissions averages are specified in 40 CFR 63.653 and in paragraphs (f)(5) and (g)(8) of 40 CFR 63.654.

6. MONITORING REQUIREMENTS FOR MISCELLANEOUS PROCESS VENTS - 40 CFR 63, Subpart CC [63.644]

a. Except as provided in section A.III.6.b., when the permittee utilizes a combustion device to comply with the requirements in III.a, the permittee shall install the monitoring equipment specified in sections A.III.6.a. (i.- iv.), depending on the type of combustion device used. All monitoring equipment shall be installed, calibrated, maintained, and operated according to manufacturer's specifications.

   i. Where an incinerator is used, a temperature monitoring device equipped with a continuous recorder is required. The temperature monitoring device shall be installed in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs.

   ii. Where a flare is used, a device (including, but not limited to, a thermocouple, an ultraviolet beam sensor, or an infrared sensor) capable of continuously detecting the presence of a pilot flame is required.

   iii. Any boiler or process heater with a design heat input capacity greater than or equal to 44 megawatt or any boiler or process heater in which all vent streams are introduced into the flame zone is exempt from monitoring.

   iv. Any boiler or process heater less than 44 megawatts design heat capacity where the vent stream is not introduced into the flame zone is required to use a temperature monitoring device in the firebox equipped with a continuous recorder.

b. The permittee may request approval to monitor parameters other than those listed above. The request shall be submitted according to the procedures specified in section A.III.6.a. Approval shall be requested if the permittee:

   i. Uses a control device other than an incinerator, boiler, process heater, or flare; or

   ii. Uses one of the control devices listed in paragraph (a) above, but seeks to monitor a parameter other than those specified in section A.III.6.a.

c. If the permittee uses a vent system that contains bypass lines that could divert a vent stream away from the control device used to comply with section A.III.6.a., the permittee shall comply with either section A.III.6.c (i. or ii.). Equipment such as low leg drains, high point bleeds, analyzer vents, open-ended valves or lines, pressure relief valves needed for safety reasons, and equipment subject to the equipment leak provisions of these terms and conditions are not subject to this paragraph.

   i. Install, calibrate, maintain, and operate a flow indicator that determines whether a vent stream flow is present at least once every hour. The flow

indicator shall be installed at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere; or

ii. Secure the bypass line valve in the closed position with a car seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line.

d. The permittee shall establish a range that ensures compliance with the emissions standard for each parameter monitored under sections A.III.6.a. and A.III.6.b.

e. The permittee shall operate the control device in a manner consistent with the minimum and/or maximum operating parameter value or procedure required to be monitored under sections A.III.6.a. and A.III.6.b. Operation of the control device in a manner that constitutes a period of excess emissions, as defined below, or failure to perform procedures required by this section shall constitute a violation of the applicable emission standard of this subpart.

i. Period of excess emissions means any of the following conditions:

(a) An operating day when the daily average value of a monitored parameter, except presence of a flare pilot flame, is outside the range specified in the Notification of Compliance Status report. Monitoring data recorded during periods of monitoring system breakdown, repairs, calibration checks, and zero (low-level) and high-level adjustments shall not be used in computing daily average values of monitored parameters.

(b) An operating day when all pilot flames of a flare are absent.

(c) An operating day when monitoring data required to be recorded in sections A.III.6.e.i.(a) and A.III.6.e.i.(b) are available for less than 75 percent of the operating hours.

(d) For data compression systems approved under this section an operating time period when the monitor operated for less than 75 percent of the operating period, or a day when less than 18 monitoring values were recorded.

ii. Periods of startup and shutdown and malfunction and periods of performance testing and monitoring system calibration shall not be considered periods of excess emissions. Malfunctions may include process unit, control device, or monitoring system malfunction.

7. In accordance with OAC rule 3745-21-09(T), the permittee shall comply with the following monitoring and record keeping requirements, at a minimum:

   a. For all emission units which are subject to VOC leaks:

      i. Annual monitoring of all pump seals and process drains in accordance with section A.V.

      ii. Quarterly monitoring of all compressor seals and pressure relief valves in gas service in accordance with the methods and procedures in section A.V;

      iii. Visual monitoring of all pump seals each month;

      iv. Monitoring of any pump seal in accordance with the methods and procedures in section A.V within five working days after the seal has vented to the atmosphere ;

      v. Monitoring of any relief valve in accordance with the methods and procedures in section A.V within five working days after the valve has vented to the atmosphere ; and,

      vi. Monitoring of any component in accordance with the methods and procedures in section A.V within five working days after the repair of a leak.

   b. Pressure relief devices which are connected to an operating flare header, vapor recovery devices, storage tank valves and valves which are not externally regulated are exempt from the monitoring requirements in sections A.III.7.a through A.III.7.f.

   c. All pressure relief valves in gas service shall be clearly marked and identified in such a manner that they will be obvious to both refinery personnel performing monitoring.

   d. For any pressure relief valves in gas or liquid service, the permittee may employ an alternative monitoring schedule as outlined below:

      i. The valve is designated as difficult to monitor and is monitored each calendar year, provided;

         (a). Construction of the process unit commenced prior to March 27, 1981

         (b). The permittee demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than six feet above a support surface; and

         (c). The permittee has a written plan that requires monitoring of the valve at least once per year;

ii. The valve is designated as unsafe to monitor and is monitored as frequently as practical during safe to monitor times, provided the following conditions are met:

(a). The permittee demonstrates that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of monitoring on a quarterly or yearly basis as specified in section A.III.7.a.

(b). The permittee adheres to a written plan that requires monitoring of the valve as frequently as practical during process unit turnarounds and other safe to monitor times;

e. If a leak is identified as the result of the monitoring program and the concentration of VOC exceeds 10,000 ppmv, a tag shall immediately be placed on the leaking component. The tag shall be readily visible and weatherproof; it shall bear an ID number, and it shall clearly indicate the date the leak was detected. The tag shall remain in place until the leaking component is repaired;

f. A monitoring log shall be maintained for all leaking components which are tagged. The log shall contain, at a minimum, the following data:

i. the name of the process unit where the leaking component is located;

ii. the type of leaking component;

iii. the tag number of the leaking component;

iv. the date on which each leak was detected and repaired;

v. the date and results of the monitoring performed within 5 working days after the leaking component was repaired;

vi. a record of the calibration of the monitoring instrument;

vii. a list of those leaking components which cannot be repaired until the next process unit turnaround; and

viii. the total number of components monitored and the total number of components found leaking during the calendar year;

g. A copy of any monitoring log shall be retained by the permittee for a minimum of two years after the date on which the record was made or the report was prepared;

h. A copy of any monitoring log shall immediately be made available to the director or

an authorized representative upon verbal or written request, at any reasonable time;

IV. Reporting Requirements

1. [60.487] REPORTING REQUIREMENTS, EQUIPMENT LEAKS - 40 CFR 60, Subpart VV

   a. [60.487(a)]
   Each permittee subject to the provisions of this subpart shall submit semiannual reports to the Director and Administrator beginning six months after the initial start-up date.

   b. [60.487(c)(1) - (4)]
   All semiannual reports to the Director and Administrator shall include the following information, summarized from the information in 60.486 [see section A.III. of Part II]:

      i. [60.487(c)(1)]
      Process unit identification.

      ii. [60.487(c)(2)]
      For each month during the semiannual reporting period:

         (a) number of valves for which leaks were detected as described in 60.482(7)(b) [see section A.II. in Part II];

         (b) number of valves for which leaks were not repaired as required in paragraph 60.482-7(d)(1) [see section A.II. in Part II];

         (c) number of pumps for which leaks were detected as described in 60.482-2(b) and (d)(6)(i) [see section A.II. in Part II];

         (d) number of pumps for which leaks were not repaired as required in 60.482-2(c)(1) and (d)(6)(ii) [see section A.II. in Part II];

         (e) number of compressors for which leaks were detected as described in 60.482-3(f) [see section A.II. in Part II];

         (f) number of compressors for which leaks were not repaired as required in 60.482-3(g)(1) [see section A.II. in Part II]; and

         (g) the facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible.

      iii. [60.487(c)(3)]

Dates of process unit shutdowns which occurred within the semiannual reporting period.

iv. [60.487(c)(4)]
Revisions to items reported according to 40 CFR 60.487(b) if changes have occurred since the initial report or subsequent revisions to the initial report.

c. [60.487(d)]
The permittee electing to comply with the provisions of 40 CFR 60.483-1 and 60.483-2 shall notify the Director and Administrator of the alternative standard selected 90 days before implementing either of the provisions.

d. [60.487(e)]
The permittee shall report the results of all performance tests in accordance with 40 CFR 60.8 of the General Provisions. The provisions of 40 CFR 60.8(d) do not apply to affected facilities subject to the provisions of 40 CFR 60, Subpart VV except that the permittee must notify the Director and Administrator of the schedule for the initial performance tests at least 30 days before the initial performance tests.

2. [61.357] REPORTING REQUIREMENTS - 40 CFR 61, subpart FF

a. [61.357(d)]
If the total annual benzene quantity from facility waste is equal to or greater than 10 Mg/yr, then the permittee shall submit to the Director and Administrator the following reports:

i. [61.357(d)(1)]
Within 90 days after January 7, 1993, unless a waiver of compliance under 40 CFR 61.11 of this part is granted, or by the date of initial startup for a new source with an initial startup after the effective date, a certification that the equipment necessary to comply with these standards has been installed and that the required initial inspections or tests have been carried out in accordance with this subpart. If a waiver of compliance is granted under 40 CFR 61.11, the certification of equipment necessary to comply with these standards shall be submitted by the date the waiver of compliance expires.

ii. [61.357(d)(2)]
Beginning on the date that the equipment necessary to comply with these standards has been certified in accordance with paragraph a.i. of this section, the permittee shall submit annually to the Director and Administrator a report that updates the information listed in paragraphs a.ii.(a) through a.ii.(c) of this section. If the information in the annual report required by paragraphs a.ii.(a) through a.ii.(c) of this section is not changed in the following year, the permittee may submit a statement to that effect.

(a) Total annual benzene quantity from facility waste determined in accordance with 61.355(a) [see section A.V. in Part II] of this subpart.

(b) A table identifying each waste stream and whether or not the waste stream will be controlled for benzene emissions in accordance with the requirements of this subpart.

(c) For each waste stream identified as not being controlled for benzene emissions in accordance with the requirements of this subpart the following information shall be added to the table:

(i) whether or not the water content of the waste stream is greater than 10 percent;

(ii) whether or not the waste stream is a process wastewater stream, product tank drawdown, or landfill leachate;

(iii) annual waste quantity for the waste stream;
(iv) range of benzene concentrations for the waste stream;

(v) annual average flow-weighted benzene concentration for the waste stream; and

(vi) annual benzene quantity for the waste stream.

iii. [61.357(a)(4)]
The information required in section A.IV.2.a.ii should represent the waste stream characteristic based on current configuration and operating conditions. The permittee only needs to list in the report those waste streams that contact materials containing benzene.

iv. [61.357(d)(3)]
If the permittee elects to comply with the requirements of 61.342(c)(3)(ii) [see section A.II. of Part II], then the report required by paragraph a.ii. of this section shall include a table identifying each waste stream chosen for exemption and the total annual benzene quantity in these exempted streams.

v. [61.357(d)(6)]
Beginning 3 months after the date that the equipment necessary to comply with these standards has been certified in accordance with paragraph a.i. of this section, the permittee shall submit quarterly to the Director and Administrator a certification that all of the required inspections have been carried out in accordance with the requirements of this subpart.

vi. [61.357(d)(7)]
Beginning 3 months after the date that the equipment necessary to comply with these standards has been certified in accordance with paragraph a.i. of this section, the permittee shall submit a report quarterly to the Director and Administrator that includes:

(a) If a treatment process or wastewater treatment system unit is monitored in accordance with 61.354(a)(1) [see section A.III. of Part II] of this subpart, then each period of operation during which the concentration of benzene in the monitored waste stream exiting the unit is equal to or greater than 10 ppmw.

(b) If a treatment process or wastewater treatment system unit is monitored in accordance with 61.354(a)(2) [see section A.III. of Part II] of this subpart, then each 3-hour period of operation during which the average value of the monitored parameter is outside the range of acceptable values or during which the unit is not operating as designed.

(c) If a treatment process or wastewater treatment system unit is monitored in accordance with 61.354(b) [see section A.III. of Part II], then each period of operation during which the flow-weighted annual average concentration of benzene in the monitored waste stream entering the unit is equal to or greater than 10 ppmw and/or the total annual benzene quantity is equal to or greater than 1.0 mg/yr.

(d) For a control device monitored in accordance with 61.354(c) [see section A.III. of Part II] of this subpart, each period of operation monitored during which any of the following conditions occur, as applicable to the control device:

(i) [61.357(d)(7)(iv)(D)]
Each 3-hour period of operation during which the average concentration of organics or the average concentration of benzene in the exhaust gases from a carbon adsorber, condenser, or other vapor recovery system is more than 20 percent greater than the design concentration level of organics or benzene in the exhaust gas.

(ii) [61.357(d)(7)(iv)(H)]
Each occurrence when the carbon in a carbon adsorber system that is regenerated directly on site in the control device is not regenerated at the predetermined carbon bed regeneration time.

(iii) [61.357(d)(7)(iv)(I)]
Each occurrence when the carbon in a carbon adsorber system that is not regenerated directly on site in the control device is not replaced at the

predetermined interval specified in 61.354(c) [see section A.III. of Part II] of this subpart.

(iv) [61.357(d)(7)(iv)F]
Each period in which the pilot flame of a flare is absent.

vii. [61.357(d)(8)]
Beginning one year after the date that the equipment necessary to comply with these standards has been certified in accordance with paragraph a.i. of this section, the permittee shall submit annually to the Director and Administrator a report that summarizes all inspections required by 61.342 through 61.354 [see sections A.II. and A.III. of Part II] during which detectable emissions are measured or a problem (such as a broken seal, gap or other problem) that could result in benzene emissions is identified, including information about the repairs or corrective action taken.

b. [61.357(e)]
The permittee electing to comply with the provisions of 61.351 [see section A.II. of Part II] or 40 CFR 61.352 of this subpart shall notify the Director and Administrator of the alternative standard selected in the report required under 40 CFR 61.07 or 61.10 of this part.

c. [61.357(f)]
The permittee who elects to install and operate the control equipment in 61.351 [see section A.II. of Part II] of this subpart shall comply with the reporting requirements in 40 CFR 60.115b.

d. [61.357(b)]
If the total annual benzene quantity from waste is less than 1 Mg/yr, then the owner or operator shall submit to the Administrator a report that updates the information listed in section A.IV.1.b whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 1 Mg/yr or more.

e. [61.357(c)]
If the total annual benzene quantity from facility waste is less than 10 Mg/yr but is equal to or greater than 1 Mg/yr, then the permittee shall submit to the Administrator a report that updates the information listed in section A.IV.1.b. The report shall be submitted annually and whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr or more. If the information in the annual report required by section A.IV.1.b is not changed in the following year, the permittee may submit a statement to that effect.

f. [61.357(g)]

If the permittee elects to install and operate the control equipment in section A.II.27, the permittee shall submit initial and quarterly reports that identify all seal gap measurements, as required in 40 CFR 60.693 -2(a), that are outside the prescribed limits.

g. [61.357(d)(4)]
If the permittee elects to comply with alternative requirements, then the permittee shall include in the report required by section A.IV.2.a.ii a table presenting the following information for each process wastewater stream:

i. Whether or not the process wastewater stream is being controlled for benzene emissions in accordance with the requirements of this section;

ii. For each process wastewater stream identified as not being controlled for benzene emissions in accordance with the requirements of this subpart, the table shall report the following information for the process wastewater stream as determined at the point of waste generation: annual waste quantity, range of benzene concentrations, annual average flow-weighted benzene concentration, and annual benzene quantity;

iii. For each process wastewater stream identified as being controlled for benzene emissions in accordance with the requirements of this subpart, the table shall report the following information for the process wastewater stream as determined as the exit to the treatment process: Annual waste quantity, range of benzene concentrations, annual average flow-weighted benzene concentration and annual benzene quantity.

h. [61.357(d)(5)]
If the permittee elects to comply with the alternative requirements, then the report required by section A.IV.2.a.ii shall include a table presenting the following information for each waste stream:

i. For each waste stream identified as not being controlled for benzene emissions in accordance with the requirements of this subpart; the table shall report the following information for the waste stream as determined at the point of waste generation: annual waste quantity, range of benzene concentrations, annual average flow-weighted benzene concentration, and annual benzene quantity;

ii. For each waste stream identified as being controlled for benzene emissions in accordance with the requirements of this section; the table shall report the following information for the waste stream as determined at the applicable location described in section A.V.2.j: Annual waste quantity, range of benzene concentrations, annual average flow-weighted benzene concentration, and annual benzene quantity.

3. REPORTING REQUIREMENTS FOR MISCELLANEOUS PROCESS VENTS - 40 CFR 63 Subpart CC [63.644 and 63.645]

a. The permittee shall report startup, shutdown and malfunctions required by 40 CFR 63.10(d)(5). Records and reports of startup, shutdown and malfunctions are not required if they pertain solely to Group 2 emission points.

b. The permittee shall submit Periodic Reports indicating any compliance exceptions no later than 60 days after the end of each 6-month period when the compliance exceptions occur. For miscellaneous process vents for which continuous parameter monitors are required, periods of excess emissions shall be identified in the Periodic Reports and shall be used to determine compliance with the emission standards. Excess emissions shall be reported for the operating parameters specified in 40 CFR 63 (Appendix Table 10). Periods of startup and shutdown that meet the definition of 40 CFR 63.2 and periods of performance testing and monitoring system calibration shall not be considered periods of excess emissions. Malfunctions may include process unit, control device, or monitoring system malfunctions.

c. The permittee shall submit the results of any performance test conducted during the period covered by the Periodic report used to demonstrate compliance for any MPV that have been changed from a Group 2 to a Group 1 MPV. The results are to be included in the periodic report and shall include the percentage of emissions reduction or outlet pollutant concentration reduction (whichever is needed to determine compliance) and the values of the monitored operating parameters. The complete test report shall remain onsite.

4. In accordance with OAC rule 3745-21-09(T), for all emission units which are subject to VOC leaks, the permittee shall submit to the director by the 15th day of January, April, July, and October that gives the total number of components monitored during the previous three calendar months, gives the total number of components found leaking during the previous three calendar months, identifies all components which were found leaking during the previous three calendar months but which were not repaired within 15 days, and identifies all leaking components which cannot be repaired until the next process unit turnaround.

V. Testing Requirements

1. [60.485] TEST METHODS AND PROCEDURES, LEAK DETECTION - 40 CFR 60, Subpart VV

a. [60.485(a)]
In conducting the performance tests required in 40 CFR 60.8, the permittee shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in 40 CFR 60.8(b).

b. [60.485(b)]
The permittee shall determine compliance with the standards in 60.482, 60.483, and 60.484 [see section A.II. in Part II] as follows. Method 21 shall be used to determine the presence of leaking sources. The instrument shall be calibrated before use each day of its

use by the procedures specified in Method 21. The following calibration gases shall be used:

i. [60.485(b)(1)(i)]
zero air (less than 10 ppm of hydrocarbon in air); and

ii. [60.485(b)(1)(ii)]
a mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane.

c. [60.485(c)]
The permittee shall determine compliance with the no detectable emission standards in 60.482-2(e), 60.482-3(i), 60.482-4, 60.482-7(f) and 60.482-10(e) [see section A.II. in Part II] as follows:

i. The requirements of paragraph (b) shall apply.

ii. Method 21 shall be used to determine the background level. All potential leak interfaces shall be traversed as close to the interface as possible. The arithmetic difference between the maximum concentration indicates by the instrument and the background level is compared with 500 ppm for determining compliance.

d. [60.485(d)]
The permittee shall test each piece of equipment unless he demonstrates that a process unit is not in VOC series, i.e., that the VOC content would never be reasonably expected to exceed 10 percent by weight. For purposes of this demonstration, the following methods and procedures shall be used:

i. [60.485(d)(1)]
Procedures that conform to the general methods in ASTM E-260, E-168, E-169 (incorporated by reference-see 40 CFR 60.17) shall be used to determine the percent VOC content in the process fluid that is contained in or contacts a piece of equipment.

ii. [60.485(d)(2)]
Organic compounds that are considered by the Director and Administrator to have negligible photochemical reactivity may be excluded from the total quantity of organic compounds in determining the VOC content of the process fluid.

iii. [60.485(d)(3)]
Engineering judgment may be used to estimate the VOC content, if a piece of equipment had not been shown previously to be in service. If the Director and Administrator disagree with the judgment, paragraphs d.i. and d.ii. of this section shall be used to resolve the disagreement.

e. [60.485(e)]
The permittee shall demonstrate that an equipment is in light liquid service by showing that all the following conditions apply:

i. [60.485(e)(1)]
The vapor pressure of one or more of the components is greater than 0.3 kPa at 20°C. Standard reference texts or ASTM D-2879 (incorporated by reference-see 40 CFR 60.17) shall be used to determine the vapor pressures.

ii. [60.485(e)(2)]
The total concentration of the pure components having a vapor pressure greater than 0.3 kPa at20°C is equal to or greater than 20 percent by weight.

iii. [60.485(e)(3)]
The fluid is a liquid at operating conditions.

f. [60.485(f)]
Samples used in conjunction with paragraphs d., e., and g. of this section shall be representative of the process fluid that is contained in or contacts the equipment or the gas being combusted in the flare.

g. [60.485(g)]
The permittee shall determine compliance with the standards of flares as follows:

i. [60.685(g)(1)]
Method 22 shall be used to determine visible emissions.

ii. [60.685(g)(2)]
A thermocouple or any other equivalent device shall be used to monitor the presence of a pilot flame in the flare.

iii. [60.685(g)(3)]
The maximum permitted velocity (V_{max}) for air-assisted flares shall be computed using the following equation:

$$V_{max} = 8.706+0.7084\ H_T$$

where:
V_{max} = maximum permitted velocity, m/sec.
H_T = net heating value of the gas being combusted, MJ/scm.

iv. [60.685(g)(4)]
The net heating value (H_T) of the gas being combusted in a flare shall be computed using the equation found in 40 CFR 60.685(g)(4).

v. [60.685(g)(5)]

Method 18 and ASTM D 2504-67 (incorporated by reference-see 40 CFR 60.17) shall be used to determine the concentration of sample component "i."

vi. [60.685(g)(6)]
ASTM D 2382-76 (incorporated by reference-see 40 CFR 60.17) shall be used to determine the net heat of combustion of component "i" if published values are not available or cannot be calculated.

vii. [60.685(g)(7)]
Method 2, 2A, 2C, or 2D, as appropriate, shall be used to determine the actual exit velocity of a flare. If needed, the unobstructed (free) cross-sectional area of the flare tip shall be used.

2. [61.355] TEST METHODS AND PROCEDURES - 40 CFR 61, subpart FF

a. [61.355(a)]
The permittee shall determine the total annual benzene quantity from facility waste by the following procedure:

i. [61.355(a)(1) & (a)(1)(i) - (a)(1)(iii)]
For each waste stream subject to 40 CFR 61, subpart FF having a flow-weighted annual average water content greater than 10 percent water, on a volume basis as total water, or is mixed with water or other wastes at any time and the resulting mixture has an annual average water content greater than 10 percent as specified in 61.342(a) [see section A.II. of Part II], the permittee shall:

(a) Determine the annual waste quantity for each waste stream using the procedures specified in paragraph b. of this section.

(b) Determine the flow-weighted annual average benzene concentration for each waste stream using the procedures specified in paragraph c. of this section.

(c) Calculate the annual benzene quantity for each waste stream by multiplying the annual waste quantity of the waste stream times the flow-weighted annual average benzene concentration.

ii. [61.355(a)(2)]
Total annual benzene quantity from facility waste is calculated by adding together the annual benzene quantity for each waste stream generated during the year and the annual benzene quantity for each process unit turnaround waste annualized according to paragraph b.iv. of this section.

iii. [61.355(a)(3)]
If the total annual benzene quantity from facility waste is equal to or greater than 10 mg/yr, then the permittee shall comply with the requirements of 61.342(c) [see section A.II. of PartII], 40 CFR 61.342(d) or (e).

iv. [61.355(a)(4) & (a)(4)(i) - (a)(4)(ii)]
If the total annual benzene quantity from facility waste is less than 10 Mg/yr but is equal to or greater than 1 Mg/yr, then the owner or operator shall:

(a) comply with the record keeping requirements of 61.356 [see section A.III. of Part II] and reporting requirements of 61.357 [see section A.IV. of Part II] of 40 CFR 61, subpart FF; and

(b) repeat the determination of total annual benzene quantity from facility waste at least once per year and whenever there is a change in the process generating the waste that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr or more.

v. [61.355(a)(5) (a)(5)(i) - (a)(5)(ii)]
If the total annual benzene quantity from facility waste is less than 1 Mg/yr, then the permittee shall:

(a) comply with the record keeping requirements of 61.356 [see section A.III. of Part II] and reporting requirements of 61.357 [see section A.IV. of Part II] of subpart FF; and

(b) repeat the determination of total annual benzene quantity from facility waste whenever there is a change in the process generating the waste that could cause the total annual benzene quantity from facility waste to increase to 1 Mg/yr or more.

vi. [61.355(a)(6)]
The benzene quantity in a waste stream that is generated less than one time per year, except as provided for process unit turnaround waste in paragraph b.iv. of this section, shall be included in the determination of total annual benzene quantity from facility waste for the year in which the waste is generated unless the waste stream is otherwise excluded from the determination of total annual benzene quantity from facility waste in accordance with paragraphs a. through c. of this section. The benzene quantity in this waste stream shall not be annualized or averaged over the time interval between the activities that resulted in generation of the waste, for purposes of determining the total annual benzene quantity from facility waste.

b. [61.355(b)]
For purposes of the calculation required by paragraph a. [61.355(a)] of this section, the permittee shall determine the annual waste quantity at the point of waste generation, unless otherwise provided in paragraphs b.i., b.ii., b.iii. and b.iv. of this section, by one of the methods given in paragraphs b.v. through b.vii. of this section.

i. [61.355(b)(1)]

The determination of annual waste quantity for sour water streams that are processed in sour water strippers shall be made at the point that the water exits the sour water stripper.

ii. [61.355(b)(2)]
The determination of annual waste quantity for wastes at coke by-product plants subject to and complying with the control requirements of 40 CFR 61.132, 61.133, 61.134 or 61.139 of subpart L of this part shall be made at the location that the waste stream exits the process unit component or waste management unit controlled by that subpart or at the exit of the ammonia still, provided that the following conditions at 40 CFR 61.355(b)(2)(i) through (b)(2)(ii) are met.

iii. [61.355(b)(3)]
The determination of annual waste quantity for wastes that are received at hazardous waste treatment, storage, or disposal facilities from offsite shall be made at the point where the waste enters the hazardous waste treatment, storage, or disposal facility.

iv. [61.355(b)(4)]
The determination of annual waste quantity for each process unit turnaround waste generated only at 2 year or greater intervals, may be made by dividing the total quantity of waste generated during the most recent process unit turnaround by the time period (in the nearest tenth of a year) between the turnaround resulting in generation of the waste and the most recent preceding process turnaround for the unit. The resulting annual waste quantity shall be included in the calculation of the annual benzene quantity as provided in paragraph 61.355(a)(1)(iii) [see section A.V. of Part II] of this section for the year in which the turnaround occurs and for each subsequent year until the unit undergoes the next process turnaround. For estimates of total annual benzene quantity as specified in the 90-day report, required under §61.357(a)(1), the permittee shall estimate the waste quantity generated during the most recent turnaround, and the time period between turnarounds in accordance with good engineering practices. If the permittee chooses not to annualize process unit turnaround waste, as specified in this paragraph, then the process unit turnaround waste quantity shall be included in the calculation of the annual benzene quantity for the year in which the turnaround occurs.

v. [61.355(b)(5)]
Select the highest annual quantity of waste managed from historical records representing the most recent 5 years of operation or, if the facility has been in service for less than 5 years but at least 1 year, from historical records representing the total operating life of the facility;

vi. [61.355(b)(6)]
use the maximum design capacity of the waste management unit; or

vii. [61.355(b)(7)]
use measurements that are representative of maximum waste generation rates.

c. [61.355(c)]
For the purposes of the calculation required by 61.355(a) [see section A.V. of Part II] of this subpart, the permittee shall determine the flow-weighted annual average benzene concentration in a manner that meets the requirements given in paragraph c.i. of this section using either of the methods given in paragraphs c.ii. and c.iii. of this section.

i. [61.355(c)(1) & (c)(1)(i) through (c)(1)(v)]
The determination of flow-weighted annual average benzene concentration shall meet all of the following criteria:

(a) The determination shall be made at the point of waste generation except for the specific cases given in paragraphs c.i.(a)(i) through (iv) of this section.

(i) The determination for sour water streams that are processed in sour water strippers shall be made at the point that the water exits the sour water stripper.

(ii) The determination for wastes at coke by-product plants subject to and complying with the control requirements of 40 CFR 61.132, 61.133, 61.134 or 61.139 of Subpart L of this part shall be made at the location that the waste stream exits the process unit component or waste management unit controlled by that subpart or at the exit of the ammonia still, provided that the following conditions are met:

(1) the transfer of wastes between units complying with the control requirements of Subpart L of this part, process units, and the ammonia still is made through hard piping or other enclosed system; and

(2) the ammonia still meets the definition of a sour water stripper in 40 CFR 61.341 of subpart FF.

(iii) The determination for wastes that are received from off site shall be made at the point where the waste enters the hazardous waste treatment, storage, or disposal facility.

(iv) The determination of flow-weighted annual average benzene concentration for process unit turnaround waste shall be made using either of the methods given in paragraph c.ii. or c.iii. of this section. The resulting flow-weighted annual average benzene concentration shall be included in the calculation of annual benzene quantity as provided in 61.355(a)(1)(iii), paragraph 2.a.i. of this section, for the year in which

the turnaround occurs and for each subsequent year until the unit undergoes the next process unit turnaround.

(b) Volatilization of the benzene by exposure to air shall not be used in the determination to reduce the benzene concentration.

(c) Mixing or diluting the waste stream with other wastes or other materials shall not be used in the determination to reduce the benzene concentration.

(d) The determination shall be made prior to any treatment of the waste that removes benzene, except as specified in 61.355(c)(1)(i)(A) through (D), paragraphs 2.c.i.(a)(i) through (iv), of this section.

(e) For wastes with multiple phases, the determination shall provide the weighted-average benzene concentration based on the benzene concentration in each phase of the waste and the relative proportion of the phases.

ii. [61.355(c)(2)]
Knowledge of the waste. The permittee shall provide sufficient information to document the flow-weighted annual average benzene concentration of each waste stream. Examples of information that could constitute knowledge include material balances, records of chemicals purchases, or previous test results provided the results are still relevant to the current waste stream conditions. If test data are used, then the permittee shall provide documentation describing the testing protocol and the means by which sampling variability and analytical variability were accounted for in the determination of the flow-weighted annual average benzene concentration for the waste stream. When the permittee and the Director and Administrator do not agree on determinations of the flow-weighted annual average benzene concentration based on knowledge of the waste, the procedures under paragraph c.iii. of this section shall be used to resolve the disagreement.

iii. [61.355(c)(3)]
Measurements of the benzene concentration in the waste stream in accordance with the following procedures:

(a) [61.355(c)(3)(i)]
Collect a minimum of three representative samples from each waste stream. Where feasible, samples shall be taken from an enclosed pipe prior to the waste being exposed to the atmosphere.

(b) [61.355(c)(3)(ii)& (c)(3)(ii)(A) through (H)]
For waste in enclosed pipes, the following procedures shall be used:

(i) Samples shall be collected prior to the waste being exposed to the atmosphere in order to minimize the loss of benzene prior to sampling.

(ii) A static mixer shall be installed in the process line or in a by-pass line unless the owner or operator demonstrates that installation of a static mixer in the line is not necessary to accurately determine the benzene concentration of the waste stream.

(iii) The sampling tap shall be located within two pipe diameters of the static mixer outlet.

(iv) Prior to the initiation of sampling, sample lines and cooling coil shall be purged with at least four volumes of waste.

(v) After purging, the sample flow shall be directed to a sample container and the tip of the sampling tube shall be kept below the surface of the waste during sampling to minimize contact with the atmosphere.

(vi) Samples shall be collected at a flow rate such that the cooling coil is able to maintain a waste temperature less than 10°C.

(vii) After filling, the sample container shall be capped immediately (within 5 seconds) to leave a minimum head space in the container.

(viii) The sample containers shall immediately be cooled and maintained at a temperature below 10°C for transfer to the laboratory.

(c) [61.355(c)(3)(iii)]
When sampling from an enclosed pipe is not feasible, a minimum of three representative samples shall be collected in a manner to minimize exposure of the sample to the atmosphere and loss of benzene prior to sampling.

(d) [61.355(c)(3)(iv) & (c)(3)(iv)(A) through (F)]
Each waste sample shall be analyzed using one of the following test methods for determining the benzene concentration in a waste stream:

(i) Method 8020, Aromatic Volatile Organics, in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846 (incorporation by reference as specified in 40 CFR 61.18);

(ii) Method 8021, Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography with Photo ionization and Electrolytic Conductivity Detectors in Series in "Test Methods for

Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846 (incorporation by reference as specified in 40 CFR 61.18);

(iii) Method 8240, Gas Chromatography/Mass Spectrometry for Volatile Organics in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846 (incorporation by reference as specified in 40 CFR 61.18);

(iv) Method 8260, Gas Chromatography/Mass Spectrometry for Volatile Organics: Capillary Column Technique in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846 (incorporation by reference as specified in 40 CFR 61.18);

(v) Method 602, Purgeable Aromatics, as described in 40 CFR 136, appendix A, Test Procedures for Analysis of Organic Pollutants, for wastewaters for which this is an approved EPA methods; or

(vi) Method 624, Purgeables, as described in 40 CFR 136, appendix A, Test Procedures for Analysis of Organic Pollutants, for wastewaters for which this is an approved EPA method.

(e) [61.355(c)(3)(v)]
The flow-weighted annual average benzene concentration shall be calculated by averaging the results of the sample analyses using the equation in 40 CFR 61.355(c)(3)(v).

d. [61.355(d)]
The permittee using performance tests to demonstrate compliance of a treatment process with 61.348(a)(1)(i) [see section A.II. of Part II] shall measure the flow-weighted annual average benzene concentration of the waste stream exiting the treatment process by collecting and analyzing a minimum of three representative samples of the waste stream using the procedures in paragraph c.iii. of this section. The test shall be conducted under conditions that exist when the treatment process is operating at the highest inlet waste stream flow rate and benzene content expected to occur. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a test. The permittee shall record all process information as is necessary to document the operating conditions during the test.

e. [61.355(e)]
The permittee using performance tests to demonstrate compliance of a treatment process with 61.348(a)(1)(ii) [see section A.II. of Part II] of this subpart shall determine the percent reduction of benzene in the waste stream on a mass basis by the following procedure:

i. [61.355(e)(1)]
The test shall be conducted under conditions that exist when the treatment process is operating at the highest inlet waste stream flow rate and benzene content expected to occur. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a test. The permittee shall record all process information necessary to document the operating conditions during the test.

ii. [61.355(e)(2)]
All testing equipment shall be prepared and installed as specified in the appropriate test methods.

iii. [61.355(e)(3)]
The mass flow rate of benzene entering the treatment process (E_b) shall be determined by computing the product of the flow rate of the waste stream entering the treatment process, as determined by the inlet flow meter, and the benzene concentration of the waste stream, as determined using the sampling and analytical procedures specified in paragraph c.ii. or c.iii. of this section. Three grab samples of the waste shall be taken at equally spaced time intervals over a 1-hour period. Each 1-hour period constitutes a run, and the performance test shall consist of a minimum of 3 runs conducted over a 3-hour period. The mass flow rate of benzene entering the treatment process is calculated using the equation in 40 CFR 61.355(e)(3).

iv. [61.355(e)(4)]
The mass flow rate of benzene exiting the treatment process (E_a) shall be determined by computing the product of the flow rate of the waste stream exiting the treatment process, as determined by the outlet flow meter or the inlet flow meter, and the benzene concentration of the waste stream, as determined using the sampling and analytical procedures specified in paragraph c.ii. or c.iii. of this section. Three grab samples of the waste shall be taken at equally spaced time intervals over a 1-hour period. Each 1-hour period constitutes a run, and the performance test shall consist of a minimum of 3 runs conducted over the same 3-hour period at which the mass flow rate of benzene entering the treatment process is determined. The mass flow rate of benzene exiting the treatment process is calculated using the equation in 40 CFR 61.355(e)(4).

f. [61.355(g)]
If performance tests are used to demonstrate compliance of a wastewater treatment system unit with 40 CFR 60.348(b), the permittee shall measure the flow-weighted annual average benzene concentration of the wastewater stream where the waste stream enters an exempt waste management unit by collecting and analyzing a minimum of three representative samples of the waste stream using the procedures in section A.V.2.C.iii. The test shall be conducted under conditions that exist when the wastewater treatment system is operating at the highest inlet wastewater stream flow rate and benzene content

expected to occur. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a test. The permittee shall record all process information as is necessary to document the operating conditions during the test.

g. [61.355(h)]
The permittee shall test equipment for compliance with no detectable emissions as required in 61.343 through 61.347 and 61.349 [see section A.II. in Part II] of this subpart in accordance with the following requirements:

i. [61.355(h)(1)]
Monitoring shall comply with Method 21 from Appendix A of 40 CFR 60.

ii. [61.355(h)(2)]
The detection instrument shall meet the performance criteria of Method 21.

iii. [61.355(h)(3)]
The instrument shall be calibrated before use on each day of its use by the procedures specified in Method 21.

iv. [61.355(h)(4)]
Calibration gases shall be zero air (less than 10 ppm of hydrocarbon in air); and a mixture of methane or n-hexane and air at a concentration of approximately, but less than, 10,000 ppm methane or n-hexane.

v. [61.355(h)(5)]
The background level shall be determined as set forth in Method 21.

vi. [61.355(h)(6)]
The instrument probe shall be traversed around all potential leak interfaces as close as possible to the interface as described in Method 21.

vii. [61.355(h)(7)]
The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared to 500 ppm for determining compliance.

h. [61.355(i)]
The permittee using a performance test to demonstrate compliance of a control device with either the organic reduction efficiency requirement or the benzene reduction efficiency requirement specified under 61.349(a)(2) [see section A.II. in Part II] shall use the following procedures:

i. [61.355(i)(1)]

The test shall be conducted under conditions that exist when the waste management unit vented to the control device is operating at the highest load or capacity level expected to occur. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a test. The permittee shall record all process information necessary to document the operating conditions during the test.

ii. [61.355(i)(2)]
Sampling sites shall be selected using Method 1 or 1A from appendix A of 40 CFR 60, as appropriate.

iii. [61.355(i)(3)]
The mass flow rate of either the organics or benzene entering and exiting the control device shall be determined as follows:

(a) The time period for the test shall not be less than 3 hours during which at least 3 stack gas samples are collected. Samples of the vent stream entering and exiting the control device shall be collected during the same time period. Each sample shall be collected over a 1-hour period (e.g., in a tedlar bag) to represent a time-integrated composite sample.

(b) A run shall consist of a 1-hour period during the test. For each run:

(i) the reading from each measurement shall be recorded;

(ii) the volume exhausted shall be determined using Method 2, 2A, 2C, or 2D from appendix A of 40 CFR 60, as appropriate; and

(iii) the organic concentration or the benzene concentration, as appropriate, in the vent stream entering and exiting the control shall be determined using Method 18 from Appendix A of 40 CFR 60.

(c) The mass of organics or benzene entering and exiting the control device during each run shall be calculated using the equation in 40 CFR 61.355(i)(3)(iii).

(d) The mass flow rate of organics or benzene entering and exiting the control device shall be calculated using the equation in 40 CFR 61.355Ii)(3)(iv).

iv. [61.355(i)(4)]
The organic reduction efficiency for the control device shall be calculated using the equation in 40 CFR 61.355(i)(4).

i. [61.355(j)]

The permittee shall determine the benzene quantity for the purposes of the calculation required by 61.342(c)(3)(ii)(B) [see section A.II. of Part II] according to the provisions of paragraph a. of this section, except that the procedures in paragraph a. of this section shall also apply to wastes with a water content of 10 percent or less.

j. [61.355(k)]
The permittee shall determine the benzene quantity for the purposes of the calculation required by A.II.20.d by the following procedure:

i. For each waste stream that is not controlled for air emissions in accordance with 40 CFRs 61.343, 61.344, 61.345, 61.346, 61.347, or 61.348(a), as applicable to the waste management unit that manages the waste, the benzene quantity shall be determined as specified in section A.V.2.a, except that section A.V.2.b.iv shall not apply, i.e., the waste quantity for process unit turnaround for the purposes of the calculation required by section A.II.20.d.

ii. For each waste stream that is controlled for air emissions in accordance with 40 CFRs 61.343, 61,344, 61.345, 61.346, 61.347, or 61.348(a), as applicable to the waste management unit that manages the waste, the determination of annual waste quantity and flow-weighted annual average benzene concentration shall be made at the first applicable location as described in sections A.V.2.j.(a), A.V.2.j.(b), and A.V.j.(c) and prior to any reduction of benzene concentration through volatilization of the benzene, using the methods given in A.V.2.j.(d) and A.V.2.j.(e).

(a) Where the waste stream enters the first waste management unit not complying with 40 CFRs 61.343, 61.344, 61.345, 61.346, 61.347, and 61.348(a) that are applicable to the waste management unit;

(b) For each waste stream that is managed or treated only in compliance with 40 CFRs 61.343 through 61.348(a) up to the point of final direct discharge from the facility, the determination of benzene quantity shall be prior to any reduction of benzene concentration through volatilization of the benzene; or

(c) For wastes managed in units controlled for air emissions in accordance with 40 CFRs 61.343, 61.344, 61.345, 61.346, 61.347, and 61.348(a), and then transferred offsite, facilities shall use the first applicable offsite location as described in sections A.V.2.j.(a) and A.V.2.j(b) if they have documentation from the offsite facility of the benzene quantity at this location. Facilities without this documentation for offsite wastes shall use the benzene quantity determined at the point where the transferred waste leaves the facility.

(d) Annual waste quantity shall be determined using the procedures in sections A.V.2.b.v, A.V.2.b.vi, and A.V.2.b.vii and

(e) The flow-weighted annual average benzene concentration shall be determined using the procedures in sections A.V.2.c.ii or A.V.2.c.iii.

iii. The benzene quantity in a waste stream that is generated less than one time per year, including process unit turnaround waste, shall be included in the determination of benzene quantity as determined in section A.V.2.j.vi for the year in which the water is generated. The benzene quantity in this waste stream shall not be annualized or averaged over the time interval between the activities that resulted in generation of the water for purposes of determining benzene quantity as determined in section A.V.2.j.vi.

iv. The benzene in waste entering an enhanced bio-degradation unit shall not be included in the determination of benzene quantity if the following conditions are met:

(a) The benzene concentration for each waste stream entering the enhanced bio-degradation uni is less than 10 ppmw on a flow-weighted annual average basis, and

(b) All prior waste management units managing the waste comply with 40 CFRs 61.343, 61.344, 61.345, 61.346, 61.347 and 61.348(a).

v. The benzene quantity for each waste stream in section A.V.2.j.ii shall be determined by multiplying the annual waste quantity of each waste stream times its flow-weighted annual average benzene concentration.

vi. The total benzene quantity shall be determined by adding together the benzene quantities determined in sections A.V.2.j.i through A.V.2.j.v for each applicable waste stream.

vii. If the benzene quantity determined in section A.V.2.j.vi exceeds 60 Mg/yr only because of multiple counting of the benzene quantity for a waste stream, the permittee may use the following procedures for the purposes of the calculation:

(a) Determine which waste management units are involved in the multiple counting of benzene;

(b) Determine the quantity of benzene that is emitted, recovered, or removed from the affected units or destroyed in the units if applicable, using either direct measurements or the best available estimation techniques developed or approved by the Administrator.

(c) Adjust the benzene quantity to eliminate the multiple counting of benzene and determine the total benzene quantity.

(d) Submit in the annual report a description of the methods used and the resulting calculations for the alternative procedure, and any adjusted benzene quantity determination.

3. TESTING AND COMPLIANCE METHODS AND PROCEDURES FOR MISCELLANEOUS PROCESS VENTS - 40 CFR 63, Subpart CC [63.645]

a. The permittee shall comply with the flare provisions in 40 CFR 63.11(b) when a flare is used to comply with the terms and conditions in this permit. The permittee is not required to conduct a performance test to determine percent emission reduction or outlet organic HAP or TOC concentration when a flare is used.

b. The permittee is not required to conduct a performance test when any of the following control devices are used:

i. Any boiler or process heater with a design heat input capacity of 44 megawatts or greater.

ii. Any boiler or process heater in which all vent streams are introduced into the flame zone.

iii. A control device for which a performance test was conducted for determining compliance with a regulation promulgated by the EPA and the test was conducted using the same methods specified in this section and either no process changes have been made since the test, or the permittee can demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process changes.

c. Except as provided in sections A.V.3.a. and A.V.3.b., the permittee shall use a control device to comply with the organic HAP concentration limit or percent reduction efficiency requirements of this permit and shall conduct a performance test using the procedures in sections A.V.3.c.i. through A.V.3.c.iv. The organic HAP concentration and percent reduction may be measured as either total organic HAP or as TOC minus methane and ethane according to the procedures specified below.

i. Method 1 or 1A of 40 CFR 60, Appendix A, as appropriate, shall be used for selection of the sampling sites.

(a) For determination of compliance with the 98 percent reduction of total organic HAP requirement sampling sites shall be located at the inlet of the control device and at the outlet of the control device as specified below:

(i) The control device inlet sampling site shall be located after the final product recovery device.

(ii) If a process vent stream is introduced with the combustion air or as a secondary fuel into a boiler or process heater with a design capacity less than 44 megawatts, selection of the location of the inlet sampling sites shall ensure the measurement of total organic HAP of TOC (minus methane and ethane) concentrations in all process vent streams and primary and secondary fuels introduced into the boiler or process heater with a design capacity less than 44 megawatts, selection of the location of the inlet sampling sites shall ensure the measurement of total organic HAP or TOC (minus methane and ethane) concentrations in all process vent streams and primary and secondary fuels introduced into the boiler or process heater.

(b) For determination of compliance with the 20 parts per million by volume total organic HAP limit, the sampling site shall be located at the outlet of the control device.

ii. The gas volumetric flow rate shall be determined using Method 2, 2A, 2C, or 2D of 40 CFR 60, Appendix A, as appropriate.

iii. To determine compliance with the 20 parts per million by volume total organic HAP limit of the subpart, the permittee shall use Method 18 of 40 CFR 60, Appendix A to measure either TOC minus methane and ethane or total organic HAP. Alternatively, any other method or data that has been validated according to the applicable procedures in Method 301 of Appendix A of this part may be used. The following procedures shall be used to calculate parts per million by volume concentration, corrected to 3 percent oxygen:

(a) The minimum sampling time for each run shall be 1 hour in which either an integrated sample or a minimum of four grab samples shall be taken. If grab sampling is used, then the samples shall be taken at approximately equal intervals in time, such as 15-minute intervals during the run.

(b) The concentration of either TOC (minus methane or ethane) or total organic HAP shall be calculated according to section A.V.3.c.iii.(b.)(i) or A.V.3.c.iii.(b.)(ii).

(i) The TOC concentration (CTOC) is the sum of the concentrations of the individual components and shall be computed for each run using the following equation:

C(TOC) = [Sum from I = 1 to x of {Sum from j = 1 to n of Cji}] / x

where:

CTOC = Concentration of TOC (minus methane and ethane), dry basis, parts per million by volume.

Cji = Concentration of sample components j of sample i, dry basis, parts per million by volume.

n = Number of components in the sample.

x = Number of samples in the sample run.

(ii) The total organic HAP concentration (CHAP) shall be computed according to the equation in paragraph A.V.3.c.iii.(b)(i) of this section except that only the organic HAP species shall be summed. The list of organic HAPs is provided in Table 1 of 40 CFR 63 (Appendix A).

(c) The concentration of TOC or total organic HAP shall be corrected to 3 percent oxygen if a combustion device is the control device.

(i) The emission rate correction factor or excess air, integrated sampling and analysis procedures of Method 3B of 40 CFR 60, Appendix A shall be used to determine the oxygen concentration (%O2). The samples shall be taken during the same time that the TOC (minus methane or ethane) or total organic HAP samples are taken.

(ii) The concentration corrected to 3 percent oxygen (Cc) shall be computed using either of the following equations:

Cc = Cm {17.9 / 20.9 -%O2}

where:

Cc = Concentration of TOC or organic HAP corrected to 3 percent oxygen, dry basis, parts per million by volume.

Cm = Concentration of TOC (minus methane and ethane) or organic HAP, dry basis, parts per million by volume.

%O2 = Concentration of oxygen, dry basis, percent by volume.

iv. To determine compliance with the 98 percent reduction requirement, the permittee shall use Method 18 of 40 CFR 60, Appendix A; alternatively, any other method or data that has been validated according to the applicable procedures in Method 301 of Appendix A of this part may be used. The following procedures shall be used to calculate percent reduction efficiency:

(a) The minimum sampling time for each run shall be 1 hour in which either an integrated sample or a minimum of four grab samples shall be taken. If grab sampling is used, then the samples shall be taken at approximately equal intervals in time such as 15-minute intervals during the run.

(b) The mass rate of either TOC (minus methane and ethane) or total organic HAP (Ei, Eo) shall be computed.

(i) The following equations shall be used:
Ei = K2 {Sum from j = 1 to n of Cij(Mij)} Qi

Eo = K2 {Sum from j = 1 to n of Coj(Mo)} Qo

Where:

Cij, Coj = Concentration of sample component j of the gas stream at the inlet and outlet of the control device, respectively, dry basis, parts per million by volume.

Ei, Eo = Mass rate of TOC (minus methane and ethane) or total organic HAP at the inlet and outlet of the control device, respectively, dry basis, kilogram per hour.

Mij, Moj = Molecular weight of sample component j of the gas stream at the inlet and outlet of the control device, respectively, gram/gram-mole.

Qi, Qo = Flow rate of gas stream at the inlet and outlet of the control device, respectively, dry standard cubic meter per minute.

K2 = Constant, 2.494 x 10^(-6) (parts per million) ^ (-1) (gram-mole per standard cubic meter) (kilo-ram/gram) (minute/hour), where standard temperature (gram-mole per standard cubic meter) is 20° C.

(ii) Where the mass rate of TOC is being calculated, all organic compounds (minus methane and ethane) measured by Method 18

of 40 CFR 60, Appendix A are summed using the equation in section A.V.3.c.iv.(b)(i).

(iii) Where the mass rate of total organic HAP is being calculated, only the organic HAP species shall be summed using the equation in section A.V.3.c.iv.(b)(i). The list of organic HAPs is provided in Table 1 of 40 CFR 63 , Appendix A.

(c) The percent reduction in TOC (minus methane and ethane) or total organic HAP shall be calculated as follows:

$R = \{(Ei - Eo) / Ei\} \times 100$

where:

R = Control Efficiency of control device, percent

Ei = Mass rate of TOC (minus methane and ethane) or total organic HAP at the inlet to the control device as calculated under section A.V.iv.(b), kilograms TOC per hour or kilograms organic HAP per hour.

(d) If the process vent stream entering a boiler or process heater with a design capacity less than 44 megawatts is introduced with the combustion air or as a secondary fuel, the weight-percent reduction of total organic HAP or TOC (minus methane and ethane) across the device shall be determined by comparing the TOC (minus methane and ethane) or total organic HAP in all combusted vent streams and primary and secondary fuels with the TOC (minus methane and ethane) or total organic HAP exiting the combustion device, respectively.

d. For purposes of determining the TOC emission rate, the sampling site shall be after the last product recovery device (as defined in § 63.641 of this subpart) (if any recovery devices are present), but prior to the inlet of any control device (as defined in § 63.641 of this subpart) that is present, prior to any dilution of the process vent stream, and prior to release to the atmosphere.

i. Methods 1 or 1A of 40 CFR 60, Appendix A, as appropriate, shall be used for selection of the sampling site.

ii. No traverse site selection method is needed for vents smaller than 0.10 meter in diameter.

e. Except as provided in section A.V.3.f., the permittee may demonstrate that a process vent TOC mass flow rate is less than 33 kilograms per day for an existing

source or less than 6.8 kilograms per day for a new source in accordance with the Group 2 process vent definition of this subpart shall determine the TOC mass flow rate by the following procedures:

i. The sampling site shall be selected as specified in section A.V.3.d.

ii. The gas volumetric flow rate shall be determined using Methods 2, 2A, 2 C or 2D of 40 CFR 60, Appendix A, as appropriate.

iii. Method 18 or Method 25A of 40 CFR 60, Appendix A shall be used to measure concentration; alternatively, any other method or data that has been validated according to the protocol in Method 301 of Appendix A of this part may be used. If Method 25A measurement is greater than or equal to 33 kilograms per day for an existing source or 6.8 kilograms per day for a new source, Method 18 may be used to determine any non-VOC hydrocarbons that may be deducted to calculate the TOC (minus non-VOC hydrocarbons) concentration and mass flow rate. The following procedures shall be used to calculate parts per million by volume concentration:

(a) The minimum sampling time for each run shall be 1 hour in which either an integrated sample or four grab samples shall be taken. If grab sampling is used, then the samples shall be taken at approximately equal intervals in time, such as 15-minute intervals during the run.

(b) The TOC concentration (CTOC) is the concentrations of the individual components and shall be computed for each run using the following equation if Method 18 is used:

CTOC = {Sum over i = 1 to x of [Sum over j = 1 to n of Cji]} / x

where:

CTOC = Concentration of TOC (minus methane and ethane), dry basis, parts per million by volume.

Cji = Concentration of sample component j of the sample i, dry basis, parts per million by volume.

n = Number of components in the sample.

x = Number of samples in the sample run.

iv. The emission rate of TOC (minus methane and ethane) (ETOC) shall be calculated using the following equation if Method 18 is used:

E = K2 [Sum over j = 1 to n of CjMj] Qs

where:

E = Emission rate of TOC (minus methane and ethane) in the sample, kilograms per day.

K2 = Constant, 2.494 x 10 ^ 6 (parts per million) ^ 1 (gram-mole per standard cubic meter) (kilogram per gram) (minutes per hour), where the standard temperature (standard cubic meter) is at 20° C.

CTOC = Concentration of TOC on a dry basis in parts per million volume as measured by Method 25A of 40 CFR 60, Appendix A.

Qs = Vent stream flow rate, dry standard cubic meters per minute, at a temperature of 20° C.

f. Engineering assessment may be used to determine the TOC emission rate for the representative operating condition expected to yield the highest daily emission rate.

i. Engineering assessment includes, but is not limited to, the following:

(a) Previous test results provided the tests are representative of current operating practices at the process unit.

(b) Bench-scale or pilot-scale test data representative of the process under representative operating conditions.

(c) TOC emission rate specified or implied within a permit limit applicable to the process vent.

(d) Design analysis based on accepted chemical engineering principles, measurable process parameters, or physical or chemical laws or properties. Examples of analytical methods include, but are not limited to:

(i) Use of material balances based on process stoichiometry to estimate maximum TOC concentrations;

(ii) Estimation of maximum flow rate based on physical equipment design such as pump or blower capacities; and

(iii) Estimation of TOC concentrations based on saturation conditions.

(e) All data, assumptions, and procedures used in the engineering assessment shall be documented.

g. The owner or operator of a Group 2 process vent shall recalculate the TOC emission rate for each process vent, as necessary, whenever process changes are made to determine whether the vent is in Group 1 or Group 2. Examples of process changes include, but are not limited to, changes in production capacity, production rate, or catalyst type, or whenever there is replacement, removal, or addition of recovery equipment. For purposes of this paragraph, process changes do not include:

Process upsets; unintentional, temporary process changes, and changes that are within the range on which the original calculation was based.

i. The TOC emission rate shall be recalculated based on measurements of vent stream flow rate and TOC as specified in section A.V.3.e. and A.V.3.f., as applicable, or on best engineering assessment of the effects of the change. Engineering assessments shall meet the specifications in section A.V.g.

ii. Where the recalculated TOC emission rate is greater than 33 kilograms per day for an existing source or greater than 6.8 kilograms per day for a new source, the owner or operator shall submit a report as specified in § 63.654 (f), (g), or (h) and shall comply with the appropriate provisions in § 63.643 by the dates specified in § 63.640.

B. State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

F001 - roadways, parking lots, and material handling;
F002 - roadways and parking lots;
J002 - asphalt/no. 6 loading rack;
J003 - propane loading rack;
J004 - butane loading rack;
P010 - CCR regenerator vent;
P012 - propane recovery equipment;
P014 - HF alky regenerator tower and isobutane vaporizer;
P015 - flare header drain accumulator;
P017 - emergency stormwater diesel powered pump;
P019 - emergency firewater diesel powered pump;
T108 - phosphoric acid storage (# T-3);
T109 - butane storage (# 201);
T110 - butane storage (# 202);
T111 - propane storage;

T112 - propane storage;
T113 - propane storage;
T114 - butane storage;
T115 - butane storage;
T116 - propane storage;
T117 - isobutane storage;
T118 - sulfuric acid storage;
T119 - caustic soda storage;
T120 - caustic soda storage;
T121 - caustic soda storage;
T123 - MEA storage;
T124 - MEA storage;
T125 - gasoline additive storage;
T136 - lime storage;
T137 - lime silo;
T138 - ferric chloride;
T149 - flyash storage;
T140 - sludge holding tank;
T141 - caustic solution storage;
T145 - stormwater storage;
T146 - stormwater storage
T147 - foul water storage;
T150 - recovery well project;
T151 - recovery well project;
T152 - recovery well project;
Z013 - refinery vehicle gasoline/diesel dispensing facility; and
Z014 - emergency boiler house fire pump (diesel powered).

Each insignificant unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a permit to install for the emissions unit.

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Process heat exchanger for heating crude oil with a maximum heat input of 190 mmBtu/hr, fired with refinery fuel gas or natural gas (designated as 4-0-B-6).	40 CFR Part 60.104(a)(1)	See A.I.2.a below.
	40 CFR 52.1881(b)(27)(ix)	1.0 pound of sulfur dioxide (SO2) per mmBtu of actual heat input
	OAC rule 3745-17-10(C)(1)	0.19 pound of particulates per mmBtu of actual heat input
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-31-05(A)(3) (PTI 15-023)	The requirements established pursuant to this rule are equivalent to the requirements of 40 CFR Part 60.104(a)(1), 40 CFR Part 52.1881(b)(27)(ix), OAC rule 3745-17-10(C)(1), and OAC rule 3745-17-07(A).

2. Additional Terms and Conditions

2.a The permittee shall not burn any refinery fuel gas in this emissions unit that contains hydrogen sulfide (H2S) in excess of 230 mg/dscm (0.10 gr/dscf).

II. Operational Restrictions

c. The permittee shall burn only refinery fuel gas or natural gas in this emissions unit. The sulfur content of the refinery fuel gas and natural gas burned in this emissions unit shall comply with the allowable SO2 emission limitation specified in section A.I.

d. All refinery fuel gas burned by this emissions unit shall be supplied from the south area fuel drum.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously sample and analyze the refinery fuel gas for sulfur 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/dscm of H2S.

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 local air agency upon request.

4. The permittee shall maintain records of all data obtained by the H2S CEMS including, but not limited to, parts per million of H2S on an instantaneous (1 - minute) basis, emissions of H2S in ppm as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.

5. Within 180 days of the effective date of this permit, the permittee shall develop a 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. A logbook dedicated to the monitoring system must be kept on site and available for inspection during regular office hours.

6. The permittee shall collect daily samples of refinery fuel gas for gas chromatographic analysis. Each sample shall be collected according to the following procedure:

   PURGE THE SAMPLE LINE:
   Before connecting the sample cyclinder to the sample draw, purge the sample line for 15 seconds with the sample valve nearest the sample outlet 25% open and all other sample valves 100% open. After purging, close the valve nearest the sample outlet.

   CONNECT THE CYLINDER TO THE REFINERY FUEL GAS LINE:
   After the sample line has been purged, connect the designated, empty, and labeled sample cylinder to the sample outlet. The sample cylinder must be filled from the top with the cylinder in the vertical position.

   FILL THE SAMPLE CYLINDER:

Close both valves on the sample cylinder. Open the sample valve about 25%. Open the top valve on the sample cylinder. Slowly open the bottom valve on the sample cylinder. Allow the sample to flow through the sample cylinder for about 5 seconds. Close the bottom cylinder valve. Close the top cylinder valve. Close the sample line valves.

DISCONNECT:
Remove the sample cylinder from the sample line and take the sample cylinder to the designated pickup location.

7. The permittee shall maintain daily records of the refinery fuel gas line pressure, in psia, and the refinery fuel gas temperature in degrees Rankine. Daily line pressure and gas temperature measurements shall be taken when the daily refinery fuel gas samples are collected.

8. The permittee shall maintain daily records of the density of the refinery fuel gas, the actual heating value of the refinery fuel gas, and the decimal fraction of sulfur in the refinery fuel gas as burned in this emissions unit. The actual heating value (H) and density (D) 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 heat content of each chemical compound detected in the refinery fuel gas, in Btu per pound of chemical.

D = (P x M) / (10.73 x T)

where:

10.73 = ideal gas constant with units of psia - cubic feet / lb mole - degrees Rankine
P = the refinery fuel gas line pressure, in psia;
T = the refinery fuel gas line temperature, in degrees Rankine; and
M = the molecular weight of refinery fuel gas, in lb/lb mole.

The molecular weight of the gas shall be calculated as follows:

M = summation of (MWi x fi)

where:

MWi = the molecular weight of each chemical component of the refinery fuel gas, in lb/lb mole; and

fi = the mole fraction of each chemical compound detected in the refinery fuel gas using gas chromatographic analysis.

9. 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 local air agency.

10. The permittee shall maintain daily records of each calculated, rolling, 3-hour average of the decimal (mass) fraction of sulfur in the refinery gas. The decimal (mass) fraction of sulfur shall be calculated as follows:

    S = (AH2S / 1 x 10^6) x 0.9408

    where:

    AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
    0.9408 = the pound of sulfur per pound of hydrogen sulfide.

11. The permittee shall maintain daily records of the calculated, rolling, 3-hour SO2 emission rate for the refinery fuel gas based upon the rolling, 3-hour average of the sulfur content, daily heat content value, and daily density value of the refinery fuel gas. The SO2 emission rate shall be calculated as follows, in accordance with OAC rule 3745-18-04(F)(3):

    ERG = (1x10^6/H) x (D) x (S) x (1.998)

    where:

    ERG = each rolling, 3-hour average SO2 emission rate, in pounds of SO2 per mmBtu;
    H = the calculated daily average heat value of the fuel, in Btu/dscf of refinery fuel gas;
    D = the density value of the fuel, in pounds per dscf of refinery fuel gas; and
    S = each rolling, 3-hour average decimal (mass) fraction of sulfur in the refinery fuel gas.

xii. The permittee shall maintain records of each calculated rolling, 3-hour H2S average concentration in grains of H2S per dscf of refinery gas. The rolling, 3-hour H2S average shall be calculated as follows:

(AH2S x 10^6) x D = rolling, 3-hour H2S average (in gr/dscf)

where:

AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
D = the density value of the refinery fuel gas, in pounds per dscf of refinery fuel gas.

13. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall note the following in the operations log using the operator's experience or previous stack testing conditions as a reference:

    a. the color of the emissions
    b. whether the emissions are representative of normal operations;
    c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    d. the total duration of any visible emission incident; and
    e. any corrective actions taken to eliminate the visible emissions.

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

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.11, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of refinery fuel gas or natural gas.

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

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency 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.

5. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit H2S concentration reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency. 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).

6. If there are no concentrations of H2S in the refinery fuel gas greater than the value specified in section A.I.2.a during the calendar quarter, then the permittee shall submit a statement to that effect along with the emissions unit and monitor operating times. These quarterly reports shall be submitted by February 1, May 1, August 1 and November 1 of each year and shall address the data obtained during previous calendar quarters.

V. Testing Requirements

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

   a. Emission Limitation:

      1.0 pound of S02 per mmBtu of actual heat input

      Applicable Compliance Method:

      Compliance shall be demonstrated by the record keeping requirements specified in sections A.III.1 and A.III.6 through A.III.11.

      If required, the permittee shall demonstrate compliance with the above SO2 emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Method 6 or one of its approved modifications and OAC rule 3745-17-03(B)(10).

   b. Emission Limitation:

      0.19 pound of particulates per mmBtu of actual heat input

      Applicable Compliance Method:

      If required, the permittee shall demonstrate compliance with the above particulate emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

   c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the requirements in OAC rule 3745-17-03(B)(1) and the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

d. Emission Limitation:

0.10 gr/dscf of H2S

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.12. If required, the permittee shall demonstrate compliance with the above H2S emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Method 11.

2. The permittee shall perform on-going quality assurance tests for the H2S CEMS as required in section A.III.5 in accordance with the procedures specified in 40 CFR Part 60, Appendix F.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and SO2.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A and for SO2, Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Canton local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review

and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton local air agency.

4. The permittee shall conduct annual H2S concentration testing of the refinery fuel gas from the south area fuel drum as required by 40 CFR Part 60.13(c) and section A.III.5 to verify H2S CEMS performance in accordance with the following requirements:

   a. The emissions testing shall be conducted using 40 CFR Part 60, Appendix A, Method 11 for the purpose of conducting relative accuracy evaluations. The gases entering the sampling train should be at approximately atmospheric pressure. If the pressure in the refinery fuel gas lines is relatively high, a flow control valve may be used to reduce the pressure. If the line pressure is high enough to operate the sampling train without a vacuum pump, the pump may be eliminated from the train. The sample shall be drawn from a point near the centroid of the fuel gas line. The sampling time and sample volume shall be at least 10 minutes and 0.010 dscm (0.35 dscf), respectively. Two samples of equal sampling times shall be taken at about 1-hour intervals. The arithmetic average of these two samples shall constitute a run. For most fuel gases, sampling times exceeding 20 minutes may result in depletion of the collection solution, although fuel gases containing low concentrations of hydrogen sulfide may necessitate sampling for longer periods of time.

   b. The test shall be conducted while the emissions unit is operating at greater than 50% of normal load.

   Not later than 30 days prior to the proposed test date(s), the permittee shall submit an Intent to Test (ITT) Notification to the Canton local air agency. The ITT Notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the test may result in the refusal to accept the ITT.

   Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Process heat exchanger for heating crude oil with a maximum heat input of 190 mmBtu/hr, fired with refinery fuel gas or natural gas (designated as 4-0-B-6).	OAC rule 3745-18-82(E)	The SO2 emission limitation specified in OAC rule 3745-18-82(E) is equal to the SO2 emission limitation established in 40 CFR 52.1881(b)(27)(ix).

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 35 MMBtu/hr. D.O.T. heater designated as 4-2-B-1. The heater burns refinery fuel gas and natural gas to generate heat.	40 CFR Part 60.104(a)(1)	See A.I.2.a below.
	40 CFR 52.1881(b)(27)(ix)	1.0 pound of sulfur dioxide (SO2) per mmBtu of actual heat input
	OAC rule 3745-17-10(C)(1)	0.19 pound of particulates per mmBtu of actual heat input
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-31-05(A)(3) (PTI 15-023)	The requirements established pursuant to this rule are equivalent to the requirements of 40 CFR Part 60.104(a)(1), 40 CFR Part 52.1881(b)(27)(ix), OAC rule 3745-17-10(C)(1), and OAC rule 3745-17-07(A).

2. Additional Terms and Conditions

2.a The permittee shall not burn any refinery fuel gas in this emissions unit that contains hydrogen sulfide (H2S) in excess of 230 mg/dscm (0.10 gr/dscf).

II. Operational Restrictions

l. The permittee shall burn only refinery fuel gas or natural gas in this emissions unit. The sulfur content of the refinery fuel gas and natural gas burned in this emissions unit shall comply with the allowable SO2 emission limitation specified in section A.I.

m. All refinery fuel gas burned by this emissions unit shall be supplied from the south area fuel drum.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously sample and analyze the refinery fuel gas for sulfur 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/dscm of H2S.

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 local air agency upon request.

4. The permittee shall maintain records of all data obtained by the H2S CEMS including, but not limited to, parts per million of H2S on an instantaneous (1 - minute) basis, emissions of H2S in ppm as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.

5. Within 180 days of the effective date of this permit, the permittee shall develop a 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. A logbook dedicated to the monitoring system must be kept on site and available for inspection during regular office hours.

6. The permittee shall collect daily samples of refinery fuel gas for gas chromatographic analysis. Each sample shall be collected according to the following procedure:

   PURGE THE SAMPLE LINE:
   Before connecting the sample cyclinder to the sample draw, purge the sample line for 15 seconds with the sample valve nearest the sample outlet 25% open and all other sample valves 100% open. After purging, close the valve nearest the sample outlet.

   CONNECT THE CYLINDER TO THE REFINERY FUEL GAS LINE:
   After the sample line has been purged, connect the designated, empty, and labeled sample cylinder to the sample outlet. The sample cylinder must be filled from the top with the cylinder in the vertical position.

   FILL THE SAMPLE CYLINDER:

Close both valves on the sample cylinder. Open the sample valve about 25%. Open the top valve on the sample cylinder. Slowly open the bottom valve on the sample cylinder. Allow the sample to flow through the sample cylinder for about 5 seconds. Close the bottom cylinder valve. Close the top cylinder valve. Close the sample line valves.

DISCONNECT:
Remove the sample cylinder from the sample line and take the sample cylinder to the designated pickup location.

7. The permittee shall maintain daily records of the refinery fuel gas line pressure, in psia, and the refinery fuel gas temperature in degrees Rankine. Daily line pressure and gas temperature measurements shall be taken when the daily refinery fuel gas samples are collected.

8. The permittee shall maintain daily records of the density of the refinery fuel gas, the actual heating value of the refinery fuel gas, and the decimal fraction of sulfur in the refinery fuel gas as burned in this emissions unit. The actual heating value (H) and density (D) 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 heat content of each chemical compound detected in the refinery fuel gas, in Btu per pound of chemical.

D = (P x M) / (10.73 x T)

where:

10.73 = ideal gas constant with units of psia - cubic feet / lb mole - degrees Rankine
P = the refinery fuel gas line pressure, in psia;
T = the refinery fuel gas line temperature, in degrees Rankine; and
M = the molecular weight of refinery fuel gas, in lb/lb mole.

The molecular weight of the gas shall be calculated as follows:

M = summation of (MWi x fi)

where:

MWi = the molecular weight of each chemical component of the refinery fuel gas, in lb/lb mole; and

fi = the mole fraction of each chemical compound detected in the refinery fuel gas using gas chromatographic analysis.

9. 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 local air agency.

10. The permittee shall maintain daily records of each calculated, rolling, 3-hour average of the decimal (mass) fraction of sulfur in the refinery gas. The decimal (mass) fraction of sulfur shall be calculated as follows:

    S = (AH2S / 1 x 10^6) x 0.9408

    where:

    AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
    0.9408 = the pound of sulfur per pound of hydrogen sulfide.

11. The permittee shall maintain daily records of the calculated, rolling, 3-hour SO2 emission rate for the refinery fuel gas based upon the rolling, 3-hour average of the sulfur content, daily heat content value, and daily density value of the refinery fuel gas. The SO2 emission rate shall be calculated as follows, in accordance with OAC rule 3745-18-04(F)(3):

    ERG = (1x10^6/H) x (D) x (S) x (1.998)

    where:

    ERG = each rolling, 3-hour average SO2 emission rate, in pounds of SO2 per mmBtu;
    H = the calculated daily average heat value of the fuel, in Btu/dscf of refinery fuel gas;
    D = the density value of the fuel, in pounds per dscf of refinery fuel gas; and
    S = each rolling, 3-hour average decimal (mass) fraction of sulfur in the refinery fuel gas.

xii. The permittee shall maintain records of each calculated rolling, 3-hour H2S average concentration in grains of H2S per dscf of refinery gas. The rolling, 3-hour H2S average shall be calculated as follows:

(AH2S x 10^6) x D = rolling, 3-hour H2S average (in gr/dscf)

where:

AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
D = the density value of the refinery fuel gas, in pounds per dscf of refinery fuel gas.

13. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall note the following in the operations log using the operator's experience or previous stack testing conditions as a reference:

    a. the color of the emissions
    b. whether the emissions are representative of normal operations;
    c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    d. the total duration of any visible emission incident; and
    e. any corrective actions taken to eliminate the visible emissions.

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

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.11, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of refinery fuel gas or natural gas.

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

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency 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.

5. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit H2S concentration reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency. 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).

6. If there are no concentrations of H2S in the refinery fuel gas greater than the value specified in section A.I.2.a during the calendar quarter, then the permittee shall submit a statement to that effect along with the emissions unit and monitor operating times. These quarterly reports shall be submitted by February 1, May 1, August 1 and November 1 of each year and shall address the data obtained during previous calendar quarters.

V. Testing Requirements

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

   a. Emission Limitation:

      1.0 pound of S02 per mmBtu of actual heat input

      Applicable Compliance Method:

      Compliance shall be demonstrated by the record keeping requirements specified in sections A.III.1 and A.III.6 through A.III.11.

      If required, the permittee shall demonstrate compliance with the above SO2 emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Method 6 or one of its approved modifications and OAC rule 3745-17-03(B)(10).

   b. Emission Limitation:

      0.19 pound of particulates per mmBtu of actual heat input

      Applicable Compliance Method:

      If required, the permittee shall demonstrate compliance with the above particulate emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

   c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the requirements in OAC rule 3745-17-03(B)(1) and the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

d. Emission Limitation:

0.10 gr/dscf of H2S

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.12. If required, the permittee shall demonstrate compliance with the above H2S emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Method 11.

2. The permittee shall perform on-going quality assurance tests for the H2S CEMS as required in section A.III.5 in accordance with the procedures specified in 40 CFR Part 60, Appendix F.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and SO2.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A and for SO2, Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Canton local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review

and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton local air agency.

4. The permittee shall conduct annual H2S concentration testing of the refinery fuel gas from the south area fuel drum as required by 40 CFR Part 60.13(c) and section A.III.5 to verify H2S CEMS performance in accordance with the following requirements:

   a. The emissions testing shall be conducted using 40 CFR Part 60, Appendix A, Method 11 for the purpose of conducting relative accuracy evaluations. The gases entering the sampling train should be at approximately atmospheric pressure. If the pressure in the refinery fuel gas lines is relatively high, a flow control valve may be used to reduce the pressure. If the line pressure is high enough to operate the sampling train without a vacuum pump, the pump may be eliminated from the train. The sample shall be drawn from a point near the centroid of the fuel gas line. The sampling time and sample volume shall be at least 10 minutes and 0.010 dscm (0.35 dscf), respectively. Two samples of equal sampling times shall be taken at about 1-hour intervals. The arithmetic average of these two samples shall constitute a run. For most fuel gases, sampling times exceeding 20 minutes may result in depletion of the collection solution, although fuel gases containing low concentrations of hydrogen sulfide may necessitate sampling for longer periods of time.

   b. The test shall be conducted while the emissions unit is operating at greater than 50% of normal load.

   Not later than 30 days prior to the proposed test date(s), the permittee shall submit an Intent to Test (ITT) Notification to the Canton local air agency. The ITT Notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the test may result in the refusal to accept the ITT.

   Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 35 MMBtu/hr. D.O.T. heater designated as 4-2-B-1. The heater burns refinery fuel gas and natural gas to generate heat.	OAC rule 3745-18-82(E)	The SO2 emission limitation specified in OAC rule 3745-18-82(E) is equal to the SO2 emission limitation established in 40 CFR 52.1881(b)(27)(ix).

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is the FCC charge heater with a maximum heat input of 53 MMBtu/hr. It is fired with refinery fuel gas or natural gas. It is designated as 4-2-B-5.	40 CFR Part 60.104(a)(1)	See A.I.2.a below.
	40 CFR 52.1881(b)(27)(ix)	1.00 pound of sulfur dioxide (SO2) per mmBtu of actual heat input
	OAC rule 3745-17-10(C)(1)	0.19 pound of particulates per mmBtu of actual heat input
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-31-05(A)(3) (PTI 15-023)	The requirements established pursuant to this rule are equivalent to the requirements of 40 CFR Part 60.104(a)(1), 40 CFR Part 52.1881(b)(27)(ix), OAC rule 3745-17-10(C)(1), and OAC rule 3745-17-07(A).

2. Additional Terms and Conditions

2.a The permittee shall not burn any refinery fuel gas in this emissions unit that contains hydrogen sulfide (H2S) in excess of 230 mg/dscm (0.10 gr/dscf).

II. Operational Restrictions

l. The permittee shall burn only refinery fuel gas or natural gas in this emissions unit. The sulfur content of the refinery fuel gas and natural gas burned in this emissions unit shall comply with the allowable SO2 emission limitation specified in section A.I.

m. All refinery fuel gas burned by this emissions unit shall be supplied from the south area fuel drum.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously sample and analyze the refinery fuel gas for sulfur 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/dscm of H2S.

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 local air agency upon request.

4. The permittee shall maintain records of all data obtained by the H2S CEMS including, but not limited to, parts per million of H2S on an instantaneous (1 - minute) basis, emissions of H2S in ppm as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.

5. Within 180 days of the effective date of this permit, the permittee shall develop a 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. A logbook dedicated to the monitoring system must be kept on site and available for inspection during regular office hours.

6. The permittee shall collect daily samples of refinery fuel gas for gas chromatographic analysis. Each sample shall be collected according to the following procedure:

   PURGE THE SAMPLE LINE:
   Before connecting the sample cyclinder to the sample draw, purge the sample line for 15 seconds with the sample valve nearest the sample outlet 25% open and all other sample valves 100% open. After purging, close the valve nearest the sample outlet.

   CONNECT THE CYLINDER TO THE REFINERY FUEL GAS LINE:
   After the sample line has been purged, connect the designated, empty, and labeled sample cylinder to the sample outlet. The sample cylinder must be filled from the top with the cylinder in the vertical position.

   FILL THE SAMPLE CYLINDER:

Close both valves on the sample cylinder. Open the sample valve about 25%. Open the top valve on the sample cylinder. Slowly open the bottom valve on the sample cylinder. Allow the sample to flow through the sample cylinder for about 5 seconds. Close the bottom cylinder valve. Close the top cylinder valve. Close the sample line valves.

DISCONNECT:
Remove the sample cylinder from the sample line and take the sample cylinder to the designated pickup location.

7. The permittee shall maintain daily records of the refinery fuel gas line pressure, in psia, and the refinery fuel gas temperature in degrees Rankine. Daily line pressure and gas temperature measurements shall be taken when the daily refinery fuel gas samples are collected.

8. The permittee shall maintain daily records of the density of the refinery fuel gas, the actual heating value of the refinery fuel gas, and the decimal fraction of sulfur in the refinery fuel gas as burned in this emissions unit. The actual heating value (H) and density (D) 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 heat content of each chemical compound detected in the refinery fuel gas, in Btu per pound of chemical.

D = (P x M) / (10.73 x T)

where:

10.73 = ideal gas constant with units of psia - cubic feet / lb mole - degrees Rankine
P = the refinery fuel gas line pressure, in psia;
T = the refinery fuel gas line temperature, in degrees Rankine; and
M = the molecular weight of refinery fuel gas, in lb/lb mole.

The molecular weight of the gas shall be calculated as follows:

M = summation of (MWi x fi)

where:

MWi = the molecular weight of each chemical component of the refinery fuel gas, in lb/lb mole; and

fi = the mole fraction of each chemical compound detected in the refinery fuel gas using gas chromatographic analysis.

9. 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 local air agency.

10. The permittee shall maintain daily records of each calculated, rolling, 3-hour average of the decimal (mass) fraction of sulfur in the refinery gas. The decimal (mass) fraction of sulfur shall be calculated as follows:

    S = (AH2S / 1 x 10^6) x 0.9408

    where:

    AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
    0.9408 = the pound of sulfur per pound of hydrogen sulfide.

11. The permittee shall maintain daily records of the calculated, rolling, 3-hour SO2 emission rate for the refinery fuel gas based upon the rolling, 3-hour average of the sulfur content, daily heat content value, and daily density value of the refinery fuel gas. The SO2 emission rate shall be calculated as follows, in accordance with OAC rule 3745-18-04(F)(3):

    ERG = (1x10^6/H) x (D) x (S) x (1.998)

    where:

    ERG = each rolling, 3-hour average SO2 emission rate, in pounds of SO2 per mmBtu;
    H = the calculated daily average heat value of the fuel, in Btu/dscf of refinery fuel gas;
    D = the density value of the fuel, in pounds per dscf of refinery fuel gas; and
    S = each rolling, 3-hour average decimal (mass) fraction of sulfur in the refinery fuel gas.

xii. The permittee shall maintain records of each calculated rolling, 3-hour H2S average concentration in grains of H2S per dscf of refinery gas. The rolling, 3-hour H2S average shall be calculated as follows:

(AH2S x 10^6) x D = rolling, 3-hour H2S average (in gr/dscf)

where:

AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
D = the density value of the refinery fuel gas, in pounds per dscf of refinery fuel gas.

13. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall note the following in the operations log using the operator's experience or previous stack testing conditions as a reference:

    a. the color of the emissions
    b. whether the emissions are representative of normal operations;
    c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    d. the total duration of any visible emission incident; and
    e. any corrective actions taken to eliminate the visible emissions.

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

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.11, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of refinery fuel gas or natural gas.

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

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency 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.

5. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit H2S concentration reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency. 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).

6. If there are no concentrations of H2S in the refinery fuel gas greater than the value specified in section A.I.2.a during the calendar quarter, then the permittee shall submit a statement to that effect along with the emissions unit and monitor operating times. These quarterly reports shall be submitted by February 1, May 1, August 1 and November 1 of each year and shall address the data obtained during previous calendar quarters.

V. Testing Requirements

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

   a. Emission Limitation:

      1.0 pound of S02 per mmBtu of actual heat input

      Applicable Compliance Method:

      Compliance shall be demonstrated by the record keeping requirements specified in sections A.III.1 and A.III.6 through A.III.11.

      If required, the permittee shall demonstrate compliance with the above SO2 emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Method 6 or one of its approved modifications and OAC rule 3745-17-03(B)(10).

   b. Emission Limitation:

      0.19 pound of particulates per mmBtu of actual heat input

      Applicable Compliance Method:

      If required, the permittee shall demonstrate compliance with the above particulate emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

   c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the requirements in OAC rule 3745-17-03(B)(1) and the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

d. Emission Limitation:

0.10 gr/dscf of H2S

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.12. If required, the permittee shall demonstrate compliance with the above H2S emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Method 11.

2. The permittee shall perform on-going quality assurance tests for the H2S CEMS as required in section A.III.5 in accordance with the procedures specified in 40 CFR Part 60, Appendix F.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and SO2.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A and for SO2, Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Canton local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review

and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton local air agency.

4. The permittee shall conduct annual H2S concentration testing of the refinery fuel gas from the south area fuel drum as required by 40 CFR Part 60.13(c) and section A.III.5 to verify H2S CEMS performance in accordance with the following requirements:

   a. The emissions testing shall be conducted using 40 CFR Part 60, Appendix A, Method 11 for the purpose of conducting relative accuracy evaluations. The gases entering the sampling train should be at approximately atmospheric pressure. If the pressure in the refinery fuel gas lines is relatively high, a flow control valve may be used to reduce the pressure. If the line pressure is high enough to operate the sampling train without a vacuum pump, the pump may be eliminated from the train. The sample shall be drawn from a point near the centroid of the fuel gas line. The sampling time and sample volume shall be at least 10 minutes and 0.010 dscm (0.35 dscf), respectively. Two samples of equal sampling times shall be taken at about 1-hour intervals. The arithmetic average of these two samples shall constitute a run. For most fuel gases, sampling times exceeding 20 minutes may result in depletion of the collection solution, although fuel gases containing low concentrations of hydrogen sulfide may necessitate sampling for longer periods of time.

   b. The test shall be conducted while the emissions unit is operating at greater than 50% of normal load.

   Not later than 30 days prior to the proposed test date(s), the permittee shall submit an Intent to Test (ITT) Notification to the Canton local air agency. The ITT Notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the test may result in the refusal to accept the ITT.

   Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is the FCC charge heater with a maximum heat input of 53 MMBtu/hr. It is fired with refinery fuel gas or natural gas. It is designated as 4-2-B-5.	OAC rule 3745-18-82(E)	The SO2 emission limitation specified in OAC rule 3745-18-82(E) is equal to the SO2 emission limitation established in 40 CFR 52.1881(b)(27)(ix).

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a vacuum heater with a maximum heat input of 67 MMBtu/hr. It is fired with refinery fuel gas or natural gas. It is designated as 4-4-B-1.	40 CFR Part 60.104(a)(1)	See A.I.2.a below.
	40 CFR 52.1881(b)(27)(ix)	1.00 pound of sulfur dioxide (SO2) per mmBtu of actual heat input
	OAC rule 3745-17-10(C)(1)	0.19 pound of particulates per mmBtu of actual heat input
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-31-05(A)(3) (PTI 15-023)	The requirements established pursuant to this rule are equivalent to the requirements of 40 CFR Part 60.104(a)(1), 40 CFR Part 52.1881(b)(27)(ix), OAC rule 3745-17-10(C)(1), and OAC rule 3745-17-07(A).

2. Additional Terms and Conditions

2.a The permittee shall not burn any refinery fuel gas in this emissions unit that contains hydrogen sulfide (H2S) in excess of 230 mg/dscm (0.10 gr/dscf).

II. Operational Restrictions

l. The permittee shall burn only refinery fuel gas or natural gas in this emissions unit. The sulfur content of the refinery fuel gas and natural gas burned in this emissions unit shall comply with the allowable SO2 emission limitation specified in section A.I.

m. All refinery fuel gas burned by this emissions unit shall be supplied from the south area fuel drum.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously sample and analyze the refinery fuel gas for sulfur 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/dscm of H2S.

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 local air agency upon request.

4. The permittee shall maintain records of all data obtained by the H2S CEMS including, but not limited to, parts per million of H2S on an instantaneous (1 - minute) basis, emissions of H2S in ppm as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.

5. Within 180 days of the effective date of this permit, the permittee shall develop a 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. A logbook dedicated to the monitoring system must be kept on site and available for inspection during regular office hours.

6. The permittee shall collect daily samples of refinery fuel gas for gas chromatographic analysis. Each sample shall be collected according to the following procedure:

   PURGE THE SAMPLE LINE:
   Before connecting the sample cyclinder to the sample draw, purge the sample line for 15 seconds with the sample valve nearest the sample outlet 25% open and all other sample valves 100% open. After purging, close the valve nearest the sample outlet.

   CONNECT THE CYLINDER TO THE REFINERY FUEL GAS LINE:
   After the sample line has been purged, connect the designated, empty, and labeled sample cylinder to the sample outlet. The sample cylinder must be filled from the top with the cylinder in the vertical position.

   FILL THE SAMPLE CYLINDER:

Close both valves on the sample cylinder. Open the sample valve about 25%. Open the top valve on the sample cylinder. Slowly open the bottom valve on the sample cylinder. Allow the sample to flow through the sample cylinder for about 5 seconds. Close the bottom cylinder valve. Close the top cylinder valve. Close the sample line valves.

DISCONNECT:
Remove the sample cylinder from the sample line and take the sample cylinder to the designated pickup location.

7. The permittee shall maintain daily records of the refinery fuel gas line pressure, in psia, and the refinery fuel gas temperature in degrees Rankine. Daily line pressure and gas temperature measurements shall be taken when the daily refinery fuel gas samples are collected.

8. The permittee shall maintain daily records of the density of the refinery fuel gas, the actual heating value of the refinery fuel gas, and the decimal fraction of sulfur in the refinery fuel gas as burned in this emissions unit. The actual heating value (H) and density (D) 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 heat content of each chemical compound detected in the refinery fuel gas, in Btu per pound of chemical.

D = (P x M) / (10.73 x T)

where:

10.73 = ideal gas constant with units of psia - cubic feet / lb mole - degrees Rankine
P = the refinery fuel gas line pressure, in psia;
T = the refinery fuel gas line temperature, in degrees Rankine; and
M = the molecular weight of refinery fuel gas, in lb/lb mole.

The molecular weight of the gas shall be calculated as follows:

M = summation of (MWi x fi)

where:

MWi = the molecular weight of each chemical component of the refinery fuel gas, in lb/lb mole; and

fi = the mole fraction of each chemical compound detected in the refinery fuel gas using gas chromatographic analysis.

9. 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 local air agency.

10. The permittee shall maintain daily records of each calculated, rolling, 3-hour average of the decimal (mass) fraction of sulfur in the refinery gas. The decimal (mass) fraction of sulfur shall be calculated as follows:

    S = (AH2S / 1 x 10^6) x 0.9408

    where:

    AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
    0.9408 = the pound of sulfur per pound of hydrogen sulfide.

11. The permittee shall maintain daily records of the calculated, rolling, 3-hour SO2 emission rate for the refinery fuel gas based upon the rolling, 3-hour average of the sulfur content, daily heat content value, and daily density value of the refinery fuel gas. The SO2 emission rate shall be calculated as follows, in accordance with OAC rule 3745-18-04(F)(3):

    ERG = (1x10^6/H) x (D) x (S) x (1.998)

    where:

    ERG = each rolling, 3-hour average SO2 emission rate, in pounds of SO2 per mmBtu;
    H = the calculated daily average heat value of the fuel, in Btu/dscf of refinery fuel gas;
    D = the density value of the fuel, in pounds per dscf of refinery fuel gas; and
    S = each rolling, 3-hour average decimal (mass) fraction of sulfur in the refinery fuel gas.

xii. The permittee shall maintain records of each calculated rolling, 3-hour H2S average concentration in grains of H2S per dscf of refinery gas. The rolling, 3-hour H2S average shall be calculated as follows:

(AH2S x 10^6) x D = rolling, 3-hour H2S average (in gr/dscf)

where:

AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
D = the density value of the refinery fuel gas, in pounds per dscf of refinery fuel gas.

13. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall note the following in the operations log using the operator's experience or previous stack testing conditions as a reference:

    a. the color of the emissions
    b. whether the emissions are representative of normal operations;
    c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    d. the total duration of any visible emission incident; and
    e. any corrective actions taken to eliminate the visible emissions.

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

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.11, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of refinery fuel gas or natural gas.

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

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency 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.

5. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit H2S concentration reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency. 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).

6. If there are no concentrations of H2S in the refinery fuel gas greater than the value specified in section A.I.2.a during the calendar quarter, then the permittee shall submit a statement to that effect along with the emissions unit and monitor operating times. These quarterly reports shall be submitted by February 1, May 1, August 1 and November 1 of each year and shall address the data obtained during previous calendar quarters.

V. Testing Requirements

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

   a. Emission Limitation:

      1.0 pound of S02 per mmBtu of actual heat input

      Applicable Compliance Method:

      Compliance shall be demonstrated by the record keeping requirements specified in sections A.III.1 and A.III.6 through A.III.11.

      If required, the permittee shall demonstrate compliance with the above SO2 emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Method 6 or one of its approved modifications and OAC rule 3745-17-03(B)(10).

   b. Emission Limitation:

      0.19 pound of particulates per mmBtu of actual heat input

      Applicable Compliance Method:

      If required, the permittee shall demonstrate compliance with the above particulate emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

   c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the requirements in OAC rule 3745-17-03(B)(1) and the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

d. Emission Limitation:

0.10 gr/dscf of H2S

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.12. If required, the permittee shall demonstrate compliance with the above H2S emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Method 11.

2. The permittee shall perform on-going quality assurance tests for the H2S CEMS as required in section A.III.5 in accordance with the procedures specified in 40 CFR Part 60, Appendix F.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and SO2.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A and for SO2, Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Canton local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review

and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton local air agency.

4. The permittee shall conduct annual H2S concentration testing of the refinery fuel gas from the south area fuel drum as required by 40 CFR Part 60.13(c) and section A.III.5 to verify H2S CEMS performance in accordance with the following requirements:

   a. The emissions testing shall be conducted using 40 CFR Part 60, Appendix A, Method 11 for the purpose of conducting relative accuracy evaluations. The gases entering the sampling train should be at approximately atmospheric pressure. If the pressure in the refinery fuel gas lines is relatively high, a flow control valve may be used to reduce the pressure. If the line pressure is high enough to operate the sampling train without a vacuum pump, the pump may be eliminated from the train. The sample shall be drawn from a point near the centroid of the fuel gas line. The sampling time and sample volume shall be at least 10 minutes and 0.010 dscm (0.35 dscf), respectively. Two samples of equal sampling times shall be taken at about 1-hour intervals. The arithmetic average of these two samples shall constitute a run. For most fuel gases, sampling times exceeding 20 minutes may result in depletion of the collection solution, although fuel gases containing low concentrations of hydrogen sulfide may necessitate sampling for longer periods of time.

   b. The test shall be conducted while the emissions unit is operating at greater than 50% of normal load.

   Not later than 30 days prior to the proposed test date(s), the permittee shall submit an Intent to Test (ITT) Notification to the Canton local air agency. The ITT Notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the test may result in the refusal to accept the ITT.

   Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a vacuum heater with a maximum heat input of 67 MMBtu/hr. It is fired with refinery fuel gas or natural gas. It is designated as 4-4-B-1.	OAC rule 3745-18-82(E)	The SO2 emission limitation specified in OAC rule 3745-18-82(E) is equal to the SO2 emission limitation established in 40 CFR 52.1881(b)(27)(ix).

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a process heater for the ISO-stripper. It has a maximum heat input of 50 mmBtu/hr. The unit is fired with refinery fuel gas and natural gas and is designated as 4-27-B-1.	40 CFR Part 60.104(a)(1)	See A.I.2.a below.
	40 CFR 52.1881(b)(27)(ix)	1.0 pound of sulfur dioxide (SO2) per mmBtu of actual heat input
	OAC rule 3745-17-10(C)(1)	0.19 pound of particulates per mmBtu of actual heat input
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-31-05(A)(3) (PTI 15-023)	The requirements established pursuant to this rule are equivalent to the requirements of 40 CFR Part 60.104(a)(1), 40 CFR Part 52.1881(b)(27)(ix), OAC rule 3745-17-10(C)(1), and OAC rule 3745-17-07(A).

2. Additional Terms and Conditions

2.a The permittee shall not burn any refinery fuel gas in this emissions unit that contains hydrogen sulfide (H2S) in excess of 230 mg/dscm (0.10 gr/dscf).

II. Operational Restrictions

l. The permittee shall burn only refinery fuel gas or natural gas in this emissions unit. The sulfur content of the refinery fuel gas and natural gas burned in this emissions unit shall comply with the allowable SO2 emission limitation specified in section A.I.

m. All refinery fuel gas burned by this emissions unit shall be supplied from the south area fuel drum.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously sample and analyze the refinery fuel gas for sulfur 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/dscm of H2S.

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 local air agency upon request.

4. The permittee shall maintain records of all data obtained by the H2S CEMS including, but not limited to, parts per million of H2S on an instantaneous (1 - minute) basis, emissions of H2S in ppm as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.

5. Within 180 days of the effective date of this permit, the permittee shall develop a 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. A logbook dedicated to the monitoring system must be kept on site and available for inspection during regular office hours.

6. The permittee shall collect daily samples of refinery fuel gas for gas chromatographic analysis. Each sample shall be collected according to the following procedure:

   PURGE THE SAMPLE LINE:
   Before connecting the sample cyclinder to the sample draw, purge the sample line for 15 seconds with the sample valve nearest the sample outlet 25% open and all other sample valves 100% open. After purging, close the valve nearest the sample outlet.

   CONNECT THE CYLINDER TO THE REFINERY FUEL GAS LINE:
   After the sample line has been purged, connect the designated, empty, and labeled sample cylinder to the sample outlet. The sample cylinder must be filled from the top with the cylinder in the vertical position.

   FILL THE SAMPLE CYLINDER:

Close both valves on the sample cylinder. Open the sample valve about 25%. Open the top valve on the sample cylinder. Slowly open the bottom valve on the sample cylinder. Allow the sample to flow through the sample cylinder for about 5 seconds. Close the bottom cylinder valve. Close the top cylinder valve. Close the sample line valves.

DISCONNECT:
Remove the sample cylinder from the sample line and take the sample cylinder to the designated pickup location.

7. The permittee shall maintain daily records of the refinery fuel gas line pressure, in psia, and the refinery fuel gas temperature in degrees Rankine. Daily line pressure and gas temperature measurements shall be taken when the daily refinery fuel gas samples are collected.

8. The permittee shall maintain daily records of the density of the refinery fuel gas, the actual heating value of the refinery fuel gas, and the decimal fraction of sulfur in the refinery fuel gas as burned in this emissions unit. The actual heating value (H) and density (D) 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 heat content of each chemical compound detected in the refinery fuel gas, in Btu per pound of chemical.

D = (P x M) / (10.73 x T)

where:

10.73 = ideal gas constant with units of psia - cubic feet / lb mole - degrees Rankine
P = the refinery fuel gas line pressure, in psia;
T = the refinery fuel gas line temperature, in degrees Rankine; and
M = the molecular weight of refinery fuel gas, in lb/lb mole.

The molecular weight of the gas shall be calculated as follows:

M = summation of (MWi x fi)

where:

MWi = the molecular weight of each chemical component of the refinery fuel gas, in lb/lb mole; and

fi = the mole fraction of each chemical compound detected in the refinery fuel gas using gas chromatographic analysis.

9. 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 local air agency.

10. The permittee shall maintain daily records of each calculated, rolling, 3-hour average of the decimal (mass) fraction of sulfur in the refinery gas. The decimal (mass) fraction of sulfur shall be calculated as follows:

    S = (AH2S / 1 x 10^6) x 0.9408

    where:

    AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
    0.9408 = the pound of sulfur per pound of hydrogen sulfide.

11. The permittee shall maintain daily records of the calculated, rolling, 3-hour SO2 emission rate for the refinery fuel gas based upon the rolling, 3-hour average of the sulfur content, daily heat content value, and daily density value of the refinery fuel gas. The SO2 emission rate shall be calculated as follows, in accordance with OAC rule 3745-18-04(F)(3):

    ERG = (1x10^6/H) x (D) x (S) x (1.998)

    where:

    ERG = each rolling, 3-hour average SO2 emission rate, in pounds of SO2 per mmBtu;
    H = the calculated daily average heat value of the fuel, in Btu/dscf of refinery fuel gas;
    D = the density value of the fuel, in pounds per dscf of refinery fuel gas; and
    S = each rolling, 3-hour average decimal (mass) fraction of sulfur in the refinery fuel gas.

xii. The permittee shall maintain records of each calculated rolling, 3-hour H2S average concentration in grains of H2S per dscf of refinery gas. The rolling, 3-hour H2S average shall be calculated as follows:

(AH2S x 10^6) x D = rolling, 3-hour H2S average (in gr/dscf)

where:

AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
D = the density value of the refinery fuel gas, in pounds per dscf of refinery fuel gas.

13. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall note the following in the operations log using the operator's experience or previous stack testing conditions as a reference:

    a. the color of the emissions
    b. whether the emissions are representative of normal operations;
    c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    d. the total duration of any visible emission incident; and
    e. any corrective actions taken to eliminate the visible emissions.

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

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.11, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of refinery fuel gas or natural gas.

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

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency 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.

5. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit H2S concentration reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency. 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).

6. If there are no concentrations of H2S in the refinery fuel gas greater than the value specified in section A.I.2.a during the calendar quarter, then the permittee shall submit a statement to that effect along with the emissions unit and monitor operating times. These quarterly reports shall be submitted by February 1, May 1, August 1 and November 1 of each year and shall address the data obtained during previous calendar quarters.

V. Testing Requirements

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

   a. Emission Limitation:

      1.0 pound of S02 per mmBtu of actual heat input

      Applicable Compliance Method:

      Compliance shall be demonstrated by the record keeping requirements specified in sections A.III.1 and A.III.6 through A.III.11.

      If required, the permittee shall demonstrate compliance with the above SO2 emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Method 6 or one of its approved modifications and OAC rule 3745-17-03(B)(10).

   b. Emission Limitation:

      0.19 pound of particulates per mmBtu of actual heat input

      Applicable Compliance Method:

      If required, the permittee shall demonstrate compliance with the above particulate emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

   c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the requirements in OAC rule 3745-17-03(B)(1) and the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

d. Emission Limitation:

0.10 gr/dscf of H2S

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.12. If required, the permittee shall demonstrate compliance with the above H2S emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Method 11.

2. The permittee shall perform on-going quality assurance tests for the H2S CEMS as required in section A.III.5 in accordance with the procedures specified in 40 CFR Part 60, Appendix F.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and SO2.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A and for SO2, Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Canton local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review

and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton local air agency.

4. The permittee shall conduct annual H2S concentration testing of the refinery fuel gas from the south area fuel drum as required by 40 CFR Part 60.13(c) and section A.III.5 to verify H2S CEMS performance in accordance with the following requirements:

   a. The emissions testing shall be conducted using 40 CFR Part 60, Appendix A, Method 11 for the purpose of conducting relative accuracy evaluations. The gases entering the sampling train should be at approximately atmospheric pressure. If the pressure in the refinery fuel gas lines is relatively high, a flow control valve may be used to reduce the pressure. If the line pressure is high enough to operate the sampling train without a vacuum pump, the pump may be eliminated from the train. The sample shall be drawn from a point near the centroid of the fuel gas line. The sampling time and sample volume shall be at least 10 minutes and 0.010 dscm (0.35 dscf), respectively. Two samples of equal sampling times shall be taken at about 1-hour intervals. The arithmetic average of these two samples shall constitute a run. For most fuel gases, sampling times exceeding 20 minutes may result in depletion of the collection solution, although fuel gases containing low concentrations of hydrogen sulfide may necessitate sampling for longer periods of time.

   b. The test shall be conducted while the emissions unit is operating at greater than 50% of normal load.

   Not later than 30 days prior to the proposed test date(s), the permittee shall submit an Intent to Test (ITT) Notification to the Canton local air agency. The ITT Notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the test may result in the refusal to accept the ITT.

   Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a process heater for the ISO-stripper. It has a maximum heat input of 50 mmBtu/hr. The unit is fired with refinery fuel gas and natural gas and is designated as 4-27-B-1.	OAC rule 3745-18-82(E)	The SO2 emission limitation specified in OAC rule 3745-18-82(E) is equal to the SO2 emission limitation established in 40 CFR 52.1881(b)(27)(ix).

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is an HDS charge heater with a maximum heat input of 115 MMBtu/hr. It is fired with refinery fuel gas, natural gas, or No. 6 fuel oil. This unit is designated as 4-32-B-1.	40 CFR 52.1881(b)(27)(ix)	1.0 pound of sulfur dioxide (SO2) per mmBtu of actual heat input
	OAC rule 3745-17-10(C)(1)	0.19 pound of particulates per mmBtu of actual heat input
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

l. The permittee shall burn only refinery fuel gas, natural gas, and/or No. 6 fuel oil in this emissions unit. The sulfur content of the refinery fuel gas, natural gas, and the fuel oil burned in this emissions unit shall comply with the allowable SO2 emission limitation specified in section A.I.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously sample and analyze the refinery fuel gas for sulfur 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/dscm of H2S.

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 local air agency upon request.

4. The permittee shall maintain records of all data obtained by the H2S CEMS including, but not limited to, parts per million of H2S on an instantaneous (1 - minute) basis, emissions of H2S in ppm as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.

5. Within 180 days of the effective date of this permit, the permittee shall develop a 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. A logbook dedicated to the monitoring system must be kept on site and available for inspection during regular office hours.

6. The permittee shall collect daily samples of refinery fuel gas for gas chromatographic analysis. Each sample shall be collected according to the following procedure:

   PURGE THE SAMPLE LINE:
   Before connecting the sample cyclinder to the sample draw, purge the sample line for 15 seconds with the sample valve nearest the sample outlet 25% open and all other sample valves 100% open. After purging, close the valve nearest the sample outlet.

   CONNECT THE CYLINDER TO THE REFINERY FUEL GAS LINE:
   After the sample line has been purged, connect the designated, empty, and labeled sample cylinder to the sample outlet. The sample cylinder must be filled from the top with the cylinder in the vertical position.

   FILL THE SAMPLE CYLINDER:
   Close both valves on the sample cylinder. Open the sample valve about 25%. Open the top valve on the sample cylinder. Slowly open the bottom valve on the sample cylinder. Allow the sample to flow through the sample cylinder for about 5 seconds. Close the bottom cylinder valve. Close the top cylinder valve. Close the sample line valves.

   DISCONNECT:
   Remove the sample cylinder from the sample line and take the sample cylinder to the designated pickup location.

7. The permittee shall maintain daily records of the refinery fuel gas line pressure, in psia, and the refinery fuel gas temperature in degrees Rankine. Daily line pressure and gas temperature measurements shall be taken when the daily refinery fuel gas samples are collected.

8. The permittee shall maintain daily records of the density of the refinery fuel gas, the actual heating value of the refinery fuel gas, and the decimal fraction of sulfur in the refinery fuel gas as burned in this emissions unit. The actual heating value (H) and density (D) 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 heat content of each chemical compound detected in the refinery fuel gas, in Btu per pound of chemical.

   D = (P x M) / (10.73 x T)

   where:

   10.73 = ideal gas constant with units of psia - cubic feet / lb mole - degrees Rankine
   P = the refinery fuel gas line pressure, in psia;
   T = the refinery fuel gas line temperature, in degrees Rankine; and
   M = the molecular weight of refinery fuel gas, in lb/lb mole.

   The molecular weight of the gas shall be calculated as follows:

   M = summation of (MWi x fi)

   where:

   MWi = the molecular weight of each chemical component of the refinery fuel gas, in lb/lb mole; and

   fi = the mole fraction of each chemical compound detected in the refinery fuel gas using gas chromatographic analysis.

9. 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 local air agency.

10. The permittee shall maintain daily records of each calculated, rolling, 3-hour average of the decimal (mass) fraction of sulfur in the refinery gas. The decimal (mass) fraction of sulfur shall be calculated as follows:

    S = (AH2S / 1 x 10^6) x 0.9408

    where:
    AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and

    0.9408 = the pound of sulfur per pound of hydrogen sulfide.

11. The permittee shall maintain daily records of the calculated, rolling, 3-hour SO2 emission rate for the refinery fuel gas based upon the rolling, 3-hour average of the sulfur content, daily heat content value, and daily density value of the refinery fuel gas. The SO2 emission rate shall be calculated as follows, in accordance with OAC rule 3745-18-04(F)(3):

    ERG = (1x10^6/H) x (D) x (S) x (1.998)

    where:

    ERG = each rolling, 3-hour average SO2 emission rate, in pounds of SO2 per mmBtu;
    H = the calculated daily average heat value of the fuel, in Btu/dscf of refinery fuel gas;
    D = the density value of the fuel, in pounds per dscf of refinery fuel gas; and
    S = each rolling, 3-hour average decimal (mass) fraction of sulfur in the refinery fuel gas.

12. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods:

    ASTM Method D4294 or ASTM Method 6010 for sulfur content; and ASTM Method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Canton local air agency.

13. The permittee shall also maintain records of the calculated SO2 emission rate, in pound(s) of SO2 per mmBtu of actual heat input, of each shipment of No. 6 fuel oil. The SO2 emission rate shall be calculated as follows in accordance with OAC rule 3745-18-04(F)(2):

    ERO = (1x 10^6/H) x (D) x (S) x (1.974)

    where:

ERO = the SO2 emission rate, in pounds of SO2 per mmBtu;
H = the heat value of the fuel, in Btu/gallon of fuel;
D = the density of the fuel, in pounds per gallon; and
S = the mass fraction of sulfur in the fuel.

14. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall note the following in the operations log using the operator's experience or previous stack testing conditions as a reference:

    a. the color of the emissions
    b. whether the emissions are representative of normal operations;
    c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    d. the total duration of any visible emission incident; and
    e. any corrective actions taken to eliminate the visible emissions.

15. For each day during which the permittee burns a fuel other than refinery fuel gas, natural gas, and/or No. 6 fuel oil, 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.

16. For each shipment of fuel oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the density of the fuel oil, and the permittee's or oil supplier's analyses for sulfur content and heat content.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each SO2 emission rate, as calculated in section A.III.13, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of No. 6 fuel oil.

2. The permittee shall submit quarterly deviation (excursion) reports that identify each rolling, 3-hour average SO2 emission rate, as calculated in section A.III.11, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of refinery fuel gas.

3. The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than No. 6 fuel oil, refinery fuel gas, and/or natural gas is burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

4. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

5. The permittee shall submit reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency 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.

V. Testing Requirements

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

   a. Emissions Limitation:

      1.0 pound of S02 per mmBtu of actual heat input

      Applicable Compliance Method:

      Compliance shall be demonstrated by the record keeping requirements specified in sections A.III.1, A.III.6 through A.III.13, and A.III.16.

      If required, the permittee shall demonstrate compliance with the above SO2 emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Method 6 or one of its approved modifications and OAC rule 3745-17-03(B)(10).

   b. Emission Limitation:

      0.19 pound of particulates per mmBtu of actual heat input

      Applicable Compliance Method:

      If required, the permittee shall demonstrate compliance with the above particulate emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

   c. Emission Limitation:

      20% opacity as a 6-minute average

      Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the requirements in OAC rule 3745-17-03(B)(1) and the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

2. The permittee shall perform on-going quality assurance tests for the H2S CEMS as required in section A.III.5 in accordance with the procedures specified in 40 CFR Part 60, Appendix F.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

   b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and SO2.

   c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A and for SO2, Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Ohio EPA.

   d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity while burning No. 6 fuel oil, unless otherwise specified or approved by the Canton local air agency.

4. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

   Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

   A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton local air agency.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is an HDS charge heater with a maximum heat input of 115 MMBtu/hr. It is fired with refinery fuel gas, natural gas, or No. 6 fuel oil. This unit is designated as 4-32-B-1.	OAC rule 3745-18-82(E)	The SO2 emission limitation specified in OAC rule 3745-18-82(E) is equal to the SO2 emission limitation established in 40 CFR 52.1881(b)(27)(ix).

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is an NPT heater with a maximum heat input of 75 MMBtu/hr. It is fired with refinery fuel gas or natural gas. It is designated as 4-30-B-1.	40 CFR Part 60.104(a)(1)	See A.I.2.a below.
	40 CFR 52.1881(b)(27)(ix)	1.00 pound of sulfur dioxide (SO2) per mmBtu of actual heat input
	OAC rule 3745-17-10(C)(1)	0.19 pound of particulates per mmBtu of actual heat input
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-31-05(A)(3) (PTI 15-023)	The requirements established pursuant to this rule are equivalent to the requirements of 40 CFR Part 60.104(a)(1), 40 CFR Part 52.1881(b)(27)(ix), OAC rule 3745-17-10(C)(1), and OAC rule 3745-17-07(A).

2. Additional Terms and Conditions

2.a The permittee shall not burn any refinery fuel gas in this emissions unit that contains hydrogen sulfide (H2S) in excess of 230 mg/dscm (0.10 gr/dscf).

II. Operational Restrictions

b. The permittee shall burn only refinery fuel gas or natural gas in this emissions unit. The sulfur content of the refinery fuel gas and natural gas burned in this emissions unit shall comply with the allowable SO2 emission limitation specified in section A.I.

c. All refinery fuel gas burned by this emissions unit shall be supplied from the south area fuel drum.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously sample and analyze the refinery fuel gas for sulfur 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/dscm of H2S.

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 local air agency upon request.

4. The permittee shall maintain records of all data obtained by the H2S CEMS including, but not limited to, parts per million of H2S on an instantaneous (1 - minute) basis, emissions of H2S in ppm as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.

5. Within 180 days of the effective date of this permit, the permittee shall develop a 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. A logbook dedicated to the monitoring system must be kept on site and available for inspection during regular office hours.

6. The permittee shall collect daily samples of refinery fuel gas for gas chromatographic analysis. Each sample shall be collected according to the following procedure:

   PURGE THE SAMPLE LINE:
   Before connecting the sample cyclinder to the sample draw, purge the sample line for 15 seconds with the sample valve nearest the sample outlet 25% open and all other sample valves 100% open. After purging, close the valve nearest the sample outlet.

   CONNECT THE CYLINDER TO THE REFINERY FUEL GAS LINE:
   After the sample line has been purged, connect the designated, empty, and labeled sample cylinder to the sample outlet. The sample cylinder must be filled from the top with the cylinder in the vertical position.

   FILL THE SAMPLE CYLINDER:

Close both valves on the sample cylinder. Open the sample valve about 25%. Open the top valve on the sample cylinder. Slowly open the bottom valve on the sample cylinder. Allow the sample to flow through the sample cylinder for about 5 seconds. Close the bottom cylinder valve. Close the top cylinder valve. Close the sample line valves.

DISCONNECT:
Remove the sample cylinder from the sample line and take the sample cylinder to the designated pickup location.

7. The permittee shall maintain daily records of the refinery fuel gas line pressure, in psia, and the refinery fuel gas temperature in degrees Rankine. Daily line pressure and gas temperature measurements shall be taken when the daily refinery fuel gas samples are collected.

8. The permittee shall maintain daily records of the density of the refinery fuel gas, the actual heating value of the refinery fuel gas, and the decimal fraction of sulfur in the refinery fuel gas as burned in this emissions unit. The actual heating value (H) and density (D) 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 heat content of each chemical compound detected in the refinery fuel gas, in Btu per pound of chemical.

D = (P x M) / (10.73 x T)

where:

10.73 = ideal gas constant with units of psia - cubic feet / lb mole - degrees Rankine
P = the refinery fuel gas line pressure, in psia;
T = the refinery fuel gas line temperature, in degrees Rankine; and
M = the molecular weight of refinery fuel gas, in lb/lb mole.

The molecular weight of the gas shall be calculated as follows:

M = summation of (MWi x fi)

where:

MWi = the molecular weight of each chemical component of the refinery fuel gas, in lb/lb mole; and

fi = the mole fraction of each chemical compound detected in the refinery fuel gas using gas chromatographic analysis.

9. 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 local air agency.

10. The permittee shall maintain daily records of each calculated, rolling, 3-hour average of the decimal (mass) fraction of sulfur in the refinery gas. The decimal (mass) fraction of sulfur shall be calculated as follows:

    S = (AH2S / 1 x 10^6) x 0.9408

    where:

    AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
    0.9408 = the pound of sulfur per pound of hydrogen sulfide.

11. The permittee shall maintain daily records of the calculated, rolling, 3-hour SO2 emission rate for the refinery fuel gas based upon the rolling, 3-hour average of the sulfur content, daily heat content value, and daily density value of the refinery fuel gas. The SO2 emission rate shall be calculated as follows, in accordance with OAC rule 3745-18-04(F)(3):

    ERG = (1x10^6/H) x (D) x (S) x (1.998)

    where:

    ERG = each rolling, 3-hour average SO2 emission rate, in pounds of SO2 per mmBtu;
    H = the calculated daily average heat value of the fuel, in Btu/dscf of refinery fuel gas;
    D = the density value of the fuel, in pounds per dscf of refinery fuel gas; and
    S = each rolling, 3-hour average decimal (mass) fraction of sulfur in the refinery fuel gas.

xii. The permittee shall maintain records of each calculated rolling, 3-hour H2S average concentration in grains of H2S per dscf of refinery gas. The rolling, 3-hour H2S average shall be calculated as follows:

(AH2S x 10^6) x D = rolling, 3-hour H2S average (in gr/dscf)

where:

AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
D = the density value of the refinery fuel gas, in pounds per dscf of refinery fuel gas.

13. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall note the following in the operations log using the operator's experience or previous stack testing conditions as a reference:

    a. the color of the emissions
    b. whether the emissions are representative of normal operations;
    c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    d. the total duration of any visible emission incident; and
    e. any corrective actions taken to eliminate the visible emissions.

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

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.11, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of refinery fuel gas or natural gas.

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

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency 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.

5. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit H2S concentration reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency. 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).

6. If there are no concentrations of H2S in the refinery fuel gas greater than the value specified in section A.I.2.a during the calendar quarter, then the permittee shall submit a statement to that effect along with the emissions unit and monitor operating times. These quarterly reports shall be submitted by February 1, May 1, August 1 and November 1 of each year and shall address the data obtained during previous calendar quarters.

V. Testing Requirements

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

   a. Emission Limitation:

      1.0 pound of S02 per mmBtu of actual heat input

      Applicable Compliance Method:

      Compliance shall be demonstrated by the record keeping requirements specified in sections A.III.1 and A.III.6 through A.III.11.

      If required, the permittee shall demonstrate compliance with the above SO2 emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Method 6 or one of its approved modifications and OAC rule 3745-17-03(B)(10).

   b. Emission Limitation:

      0.19 pound of particulates per mmBtu of actual heat input

      Applicable Compliance Method:

      If required, the permittee shall demonstrate compliance with the above particulate emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

   c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the requirements in OAC rule 3745-17-03(B)(1) and the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

d. Emission Limitation:

0.10 gr/dscf of H2S

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.12. If required, the permittee shall demonstrate compliance with the above H2S emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Method 11.

2. The permittee shall perform on-going quality assurance tests for the H2S CEMS as required in section A.III.5 in accordance with the procedures specified in 40 CFR Part 60, Appendix F.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and SO2.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A and for SO2, Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Canton local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review

and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton local air agency.

4. The permittee shall conduct annual H2S concentration testing of the refinery fuel gas from the south area fuel drum as required by 40 CFR Part 60.13(c) and section A.III.5 to verify H2S CEMS performance in accordance with the following requirements:

   a. The emissions testing shall be conducted using 40 CFR Part 60, Appendix A, Method 11 for the purpose of conducting relative accuracy evaluations. The gases entering the sampling train should be at approximately atmospheric pressure. If the pressure in the refinery fuel gas lines is relatively high, a flow control valve may be used to reduce the pressure. If the line pressure is high enough to operate the sampling train without a vacuum pump, the pump may be eliminated from the train. The sample shall be drawn from a point near the centroid of the fuel gas line. The sampling time and sample volume shall be at least 10 minutes and 0.010 dscm (0.35 dscf), respectively. Two samples of equal sampling times shall be taken at about 1-hour intervals. The arithmetic average of these two samples shall constitute a run. For most fuel gases, sampling times exceeding 20 minutes may result in depletion of the collection solution, although fuel gases containing low concentrations of hydrogen sulfide may necessitate sampling for longer periods of time.

   b. The test shall be conducted while the emissions unit is operating at greater than 50% of normal load.

   Not later than 30 days prior to the proposed test date(s), the permittee shall submit an Intent to Test (ITT) Notification to the Canton local air agency. The ITT Notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the test may result in the refusal to accept the ITT.

   Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is an NPT heater with a maximum heat input of 75 MMBtu/hr. It is fired with refinery fuel gas or natural gas. It is designated as 4-30-B-1.	OAC rule 3745-18-82(E)	The SO2 emission limitation specified in OAC rule 3745-18-82(E) is equal to the SO2 emission limitation established in 40 CFR 52.1881(b)(27)(ix).

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is boiler number 1 having a maximum heat input of 50 MMBtu/hr. It is fired with refinery fuel gas, natural gas, or No. 6 fuel oil. It is designated as 4-16-B-1.	40 CFR 52.1881(b)(27)(ix)	1.0 pound of sulfur dioxide (SO2) per mmBtu of actual heat input
	OAC rule 3745-17-10(C)(1)	0.19 pound of particulates per mmBtu of actual heat input
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

l. The permittee shall burn only refinery fuel gas, natural gas, and/or No. 6 fuel oil in this emissions unit. The sulfur content of the refinery fuel gas, natural gas, and the fuel oil burned in this emissions unit shall comply with the allowable SO2 emission limitation specified in section A.I.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously sample and analyze the refinery fuel gas for sulfur 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/dscm of H2S.

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 local air agency upon request.

4. The permittee shall maintain records of all data obtained by the H2S CEMS including, but not limited to, parts per million of H2S on an instantaneous (1 - minute) basis, emissions of H2S in ppm as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.

5. Within 180 days of the effective date of this permit, the permittee shall develop a 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. A logbook dedicated to the monitoring system must be kept on site and available for inspection during regular office hours.

6. The permittee shall collect daily samples of refinery fuel gas for gas chromatographic analysis. Each sample shall be collected according to the following procedure:

   PURGE THE SAMPLE LINE:
   Before connecting the sample cyclinder to the sample draw, purge the sample line for 15 seconds with the sample valve nearest the sample outlet 25% open and all other sample valves 100% open. After purging, close the valve nearest the sample outlet.

   CONNECT THE CYLINDER TO THE REFINERY FUEL GAS LINE:
   After the sample line has been purged, connect the designated, empty, and labeled sample cylinder to the sample outlet. The sample cylinder must be filled from the top with the cylinder in the vertical position.

   FILL THE SAMPLE CYLINDER:
   Close both valves on the sample cylinder. Open the sample valve about 25%. Open the top valve on the sample cylinder. Slowly open the bottom valve on the sample cylinder. Allow the sample to flow through the sample cylinder for about 5 seconds. Close the bottom cylinder valve. Close the top cylinder valve. Close the sample line valves.

   DISCONNECT:
   Remove the sample cylinder from the sample line and take the sample cylinder to the designated pickup location.

7. The permittee shall maintain daily records of the refinery fuel gas line pressure, in psia, and the refinery fuel gas temperature in degrees Rankine. Daily line pressure and gas temperature measurements shall be taken when the daily refinery fuel gas samples are collected.

8. The permittee shall maintain daily records of the density of the refinery fuel gas, the actual heating value of the refinery fuel gas, and the decimal fraction of sulfur in the refinery fuel gas as burned in this emissions unit. The actual heating value (H) and density (D) 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 heat content of each chemical compound detected in the refinery fuel gas, in Btu per pound of chemical.

   D = (P x M) / (10.73 x T)

   where:

   10.73 = ideal gas constant with units of psia - cubic feet / lb mole - degrees Rankine
   P = the refinery fuel gas line pressure, in psia;
   T = the refinery fuel gas line temperature, in degrees Rankine; and
   M = the molecular weight of refinery fuel gas, in lb/lb mole.

   The molecular weight of the gas shall be calculated as follows:

   M = summation of (MWi x fi)

   where:

   MWi = the molecular weight of each chemical component of the refinery fuel gas, in lb/lb mole; and

   fi = the mole fraction of each chemical compound detected in the refinery fuel gas using gas chromatographic analysis.

9. 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 local air agency.

10. The permittee shall maintain daily records of each calculated, rolling, 3-hour average of the decimal (mass) fraction of sulfur in the refinery gas. The decimal (mass) fraction of sulfur shall be calculated as follows:

    S = (AH2S / 1 x 10^6) x 0.9408

    where:

    AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and

    0.9408 = the pound of sulfur per pound of hydrogen sulfide.

11. The permittee shall maintain daily records of the calculated, rolling, 3-hour SO2 emission rate for the refinery fuel gas based upon the rolling, 3-hour average of the sulfur content, daily heat content value, and daily density value of the refinery fuel gas. The SO2 emission rate shall be calculated as follows, in accordance with OAC rule 3745-18-04(F)(3):

    ERG = (1x10^6/H) x (D) x (S) x (1.998)

    where:

    ERG = each rolling, 3-hour average SO2 emission rate, in pounds of SO2 per mmBtu;
    H = the calculated daily average heat value of the fuel, in Btu/dscf of refinery fuel gas;
    D = the density value of the fuel, in pounds per dscf of refinery fuel gas; and
    S = each rolling, 3-hour average decimal (mass) fraction of sulfur in the refinery fuel gas.

12. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods:

    ASTM Method D4294 or ASTM Method 6010 for sulfur content; and ASTM Method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Canton local air agency.

13. The permittee shall also maintain records of the calculated SO2 emission rate, in pound(s) of SO2 per mmBtu of actual heat input, of each shipment of No. 6 fuel oil. The SO2 emission rate shall be calculated as follows in accordance with OAC rule 3745-18-04(F)(2):

    ERO = (1x 10^6/H) x (D) x (S) x (1.974)

where:

ERO = the SO2 emission rate, in pounds of SO2 per mmBtu;
H = the heat value of the fuel, in Btu/gallon of fuel;
D = the density of the fuel, in pounds per gallon; and
S = the mass fraction of sulfur in the fuel.

14. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall note the following in the operations log using the operator's experience or previous stack testing conditions as a reference:

    a. the color of the emissions
    b. whether the emissions are representative of normal operations;
    c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    d. the total duration of any visible emission incident; and
    e. any corrective actions taken to eliminate the visible emissions.

15. For each day during which the permittee burns a fuel other than refinery fuel gas, natural gas, and/or No. 6 fuel oil, 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.

16. For each shipment of fuel oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the density of the fuel oil, and the permittee's or oil supplier's analyses for sulfur content and heat content.

17. The permittee shall maintain daily records of the time periods during which each of the emissions units B024, B025, and B027 were in operation.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each SO2 emission rate, as calculated in section A.III.13, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of No. 6 fuel oil.

2. The permittee shall submit quarterly deviation (excursion) reports that identify each rolling, 3-hour average SO2 emission rate, as calculated in section A.III.11, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of refinery fuel gas.

3. The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than No. 6 fuel oil, refinery fuel gas, and/or natural gas is burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

4. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

5. The permittee shall submit reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency 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.

V. Testing Requirements

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

   a. Emissions Limitation:

      1.0 pound of S02 per mmBtu of actual heat input

      Applicable Compliance Method:

      Compliance shall be demonstrated by the record keeping requirements specified in sections A.III.1, A.III.6 through A.III.13, and A.III.16.

      If required, the permittee shall demonstrate compliance with the above SO2 emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Method 6 or one of its approved modifications and OAC rule 3745-17-03(B)(10).

   b. Emission Limitation:

      0.19 pound of particulates per mmBtu of actual heat input

      Applicable Compliance Method:

      If required, the permittee shall demonstrate compliance with the above particulate emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

   c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the requirements in OAC rule 3745-17-03(B)(1) and the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

2. The permittee shall perform on-going quality assurance tests for the H2S CEMS as required in section A.III.5 in accordance with the procedures specified in 40 CFR Part 60, Appendix F.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

   b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and SO2.

   c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A and for SO2, Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Ohio EPA.

   d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity while burning No. 6 fuel oil, unless otherwise specified or approved by the Canton local air agency.

4. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

   Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

   A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton local air agency.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is boiler number 1 having a maximum heat input of 50 MMBtu/hr. It is fired with refinery fuel gas, natural gas, or No. 6 fuel oil. It is designated as 4-16-B-1.	OAC rule 3745-18-82(E)	The SO2 emission limitation specified in OAC rule 3745-18-82(E) is equal to the SO2 emission limitation established in 40 CFR 52.1881(b)(27)(ix).

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is boiler number 2 having a maximum heat input of 50 MMBtu/hr. It is fired with refinery fuel gas, natural gas, or No. 6 fuel oil. It is designated as 4-16-B-2.	40 CFR 52.1881(b)(27)(ix)	1.0 pound of sulfur dioxide (SO2) per mmBtu of actual heat input
	OAC rule 3745-17-10(C)(1)	0.19 pound of particulates per mmBtu of actual heat input
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

b. The permittee shall burn only refinery fuel gas, natural gas, and/or No. 6 fuel oil in this emissions unit. The sulfur content of the refinery fuel gas, natural gas, and the fuel oil burned in this emissions unit shall comply with the allowable SO2 emission limitation specified in section A.I.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously sample and analyze the refinery fuel gas for sulfur 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/dscm of H2S.

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 local air agency upon request.

4. The permittee shall maintain records of all data obtained by the H2S CEMS including, but not limited to, parts per million of H2S on an instantaneous (1 - minute) basis, emissions of H2S in ppm as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.

5. Within 180 days of the effective date of this permit, the permittee shall develop a 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. A logbook dedicated to the monitoring system must be kept on site and available for inspection during regular office hours.

6. The permittee shall collect daily samples of refinery fuel gas for gas chromatographic analysis. Each sample shall be collected according to the following procedure:

   PURGE THE SAMPLE LINE:
   Before connecting the sample cyclinder to the sample draw, purge the sample line for 15 seconds with the sample valve nearest the sample outlet 25% open and all other sample valves 100% open. After purging, close the valve nearest the sample outlet.

   CONNECT THE CYLINDER TO THE REFINERY FUEL GAS LINE:
   After the sample line has been purged, connect the designated, empty, and labeled sample cylinder to the sample outlet. The sample cylinder must be filled from the top with the cylinder in the vertical position.

   FILL THE SAMPLE CYLINDER:
   Close both valves on the sample cylinder. Open the sample valve about 25%. Open the top valve on the sample cylinder. Slowly open the bottom valve on the sample cylinder. Allow the sample to flow through the sample cylinder for about 5 seconds. Close the bottom cylinder valve. Close the top cylinder valve. Close the sample line valves.

   DISCONNECT:
   Remove the sample cylinder from the sample line and take the sample cylinder to the designated pickup location.

7. The permittee shall maintain daily records of the refinery fuel gas line pressure, in psia, and the refinery fuel gas temperature in degrees Rankine. Daily line pressure and gas temperature measurements shall be taken when the daily refinery fuel gas samples are collected.

8. The permittee shall maintain daily records of the density of the refinery fuel gas, the actual heating value of the refinery fuel gas, and the decimal fraction of sulfur in the refinery fuel gas as burned in this emissions unit. The actual heating value (H) and density (D) 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 heat content of each chemical compound detected in the refinery fuel gas, in Btu per pound of chemical.

   D = (P x M) / (10.73 x T)

   where:

   10.73 = ideal gas constant with units of psia - cubic feet / lb mole - degrees Rankine
   P = the refinery fuel gas line pressure, in psia;
   T = the refinery fuel gas line temperature, in degrees Rankine; and
   M = the molecular weight of refinery fuel gas, in lb/lb mole.

   The molecular weight of the gas shall be calculated as follows:

   M = summation of (MWi x fi)

   where:

   MWi = the molecular weight of each chemical component of the refinery fuel gas, in lb/lb mole; and

   fi = the mole fraction of each chemical compound detected in the refinery fuel gas using gas chromatographic analysis.

9. 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 local air agency.

10. The permittee shall maintain daily records of each calculated, rolling, 3-hour average of the decimal (mass) fraction of sulfur in the refinery gas. The decimal (mass) fraction of sulfur shall be calculated as follows:

    S = (AH2S / 1 x 10^6) x 0.9408

    where:

    AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and

    0.9408 = the pound of sulfur per pound of hydrogen sulfide.

11. The permittee shall maintain daily records of the calculated, rolling, 3-hour SO2 emission rate for the refinery fuel gas based upon the rolling, 3-hour average of the sulfur content, daily heat content value, and daily density value of the refinery fuel gas. The SO2 emission rate shall be calculated as follows, in accordance with OAC rule 3745-18-04(F)(3):

    ERG = (1x10^6/H) x (D) x (S) x (1.998)

    where:

    ERG = each rolling, 3-hour average SO2 emission rate, in pounds of SO2 per mmBtu;
    H = the calculated daily average heat value of the fuel, in Btu/dscf of refinery fuel gas;
    D = the density value of the fuel, in pounds per dscf of refinery fuel gas; and
    S = each rolling, 3-hour average decimal (mass) fraction of sulfur in the refinery fuel gas.

12. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods:

    ASTM Method D4294 or ASTM Method 6010 for sulfur content; and ASTM Method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Canton local air agency.

13. The permittee shall also maintain records of the calculated SO2 emission rate, in pound(s) of SO2 per mmBtu of actual heat input, of each shipment of No. 6 fuel oil. The SO2 emission rate shall be calculated as follows in accordance with OAC rule 3745-18-04(F)(2):

    ERO = (1x 10^6/H) x (D) x (S) x (1.974)

where:

ERO = the SO2 emission rate, in pounds of SO2 per mmBtu;
H = the heat value of the fuel, in Btu/gallon of fuel;
D = the density of the fuel, in pounds per gallon; and
S = the mass fraction of sulfur in the fuel.

14. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall note the following in the operations log using the operator's experience or previous stack testing conditions as a reference:

    a. the color of the emissions
    b. whether the emissions are representative of normal operations;
    c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    d. the total duration of any visible emission incident; and
    e. any corrective actions taken to eliminate the visible emissions.

15. For each day during which the permittee burns a fuel other than refinery fuel gas, natural gas, and/or No. 6 fuel oil, 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.

16. For each shipment of fuel oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the density of the fuel oil, and the permittee's or oil supplier's analyses for sulfur content and heat content.

17. The permittee shall maintain daily records of the time periods during which each of the emissions units B024, B025, and B027 were in operation.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each SO2 emission rate, as calculated in section A.III.13, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of No. 6 fuel oil.

2. The permittee shall submit quarterly deviation (excursion) reports that identify each rolling, 3-hour average SO2 emission rate, as calculated in section A.III.11, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of refinery fuel gas.

3. The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than No. 6 fuel oil, refinery fuel gas, and/or natural gas is burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

4. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

5. The permittee shall submit reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency 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.

6. The permittee shall submit quarterly deviation (excursion) reports that identify each day when emissions units B024, B025, and B027 are operated simultaneously. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

   a. Emissions Limitation:

      1.0 pound of S02 per mmBtu of actual heat input

      Applicable Compliance Method:

      Compliance shall be demonstrated by the record keeping requirements specified in sections A.III.1, A.III.6 through A.III.13, and A.III.16.

      If required, the permittee shall demonstrate compliance with the above SO2 emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Method 6 or one of its approved modifications and OAC rule 3745-17-03(B)(10).

   b. Emission Limitation:

      0.19 pound of particulates per mmBtu of actual heat input

      Applicable Compliance Method:

      If required, the permittee shall demonstrate compliance with the above particulate

emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the requirements in OAC rule 3745-17-03(B)(1) and the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

2. The permittee shall perform on-going quality assurance tests for the H2S CEMS as required in section A.III.5 in accordance with the procedures specified in 40 CFR Part 60, Appendix F.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and SO2.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A and for SO2, Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity while burning No. 6 fuel oil, unless otherwise specified or approved by the Canton local air agency.

4. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton local air agency.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is boiler number 2 having a maximum heat input of 50 MMBtu/hr. It is fired with refinery fuel gas, natural gas, or No. 6 fuel oil. It is designated as 4-16-B-2.	OAC rule 3745-18-82(E)	The SO2 emission limitation specified in OAC rule 3745-18-82(E) is equal to the SO2 emission limitation established in 40 CFR 52.1881(b)(27)(ix).

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is boiler number 11 having a maximum heat input of 140 MMBtu/hr. It is fired with refinery fuel gas, natural gas, or No. 6 fuel oil. It is designated as 4-16-B-11.	40 CFR 52.1881(b)(27)(ix)	1.0 pound of sulfur dioxide (SO2) per mmBtu of actual heat input
	OAC rule 3745-17-10(C)(1)	0.19 pound of particulates per mmBtu of actual heat input
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

b. The permittee shall burn only refinery fuel gas, natural gas, and/or No. 6 fuel oil in this emissions unit. The sulfur content of the refinery fuel gas, natural gas, and the fuel oil burned in this emissions unit shall comply with the allowable SO2 emission limitation specified in section A.I.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously sample and analyze the refinery fuel gas for sulfur 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/dscm of H2S.

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 local air agency upon request.

4. The permittee shall maintain records of all data obtained by the H2S CEMS including, but not limited to, parts per million of H2S on an instantaneous (1 - minute) basis, emissions of H2S in ppm as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.

5. Within 180 days of the effective date of this permit, the permittee shall develop a 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. A logbook dedicated to the monitoring system must be kept on site and available for inspection during regular office hours.

6. The permittee shall collect daily samples of refinery fuel gas for gas chromatographic analysis. Each sample shall be collected according to the following procedure:

   PURGE THE SAMPLE LINE:
   Before connecting the sample cyclinder to the sample draw, purge the sample line for 15 seconds with the sample valve nearest the sample outlet 25% open and all other sample valves 100% open. After purging, close the valve nearest the sample outlet.

   CONNECT THE CYLINDER TO THE REFINERY FUEL GAS LINE:
   After the sample line has been purged, connect the designated, empty, and labeled sample cylinder to the sample outlet. The sample cylinder must be filled from the top with the cylinder in the vertical position.

   FILL THE SAMPLE CYLINDER:
   Close both valves on the sample cylinder. Open the sample valve about 25%. Open the top valve on the sample cylinder. Slowly open the bottom valve on the sample cylinder. Allow the sample to flow through the sample cylinder for about 5 seconds. Close the bottom cylinder valve. Close the top cylinder valve. Close the sample line valves.

   DISCONNECT:
   Remove the sample cylinder from the sample line and take the sample cylinder to the designated pickup location.

7. The permittee shall maintain daily records of the refinery fuel gas line pressure, in psia, and the refinery fuel gas temperature in degrees Rankine. Daily line pressure and gas temperature measurements shall be taken when the daily refinery fuel gas samples are collected.

8. The permittee shall maintain daily records of the density of the refinery fuel gas, the actual heating value of the refinery fuel gas, and the decimal fraction of sulfur in the refinery fuel gas as burned in this emissions unit. The actual heating value (H) and density (D) 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 heat content of each chemical compound detected in the refinery fuel gas, in Btu per pound of chemical.

   D = (P x M) / (10.73 x T)

   where:

   10.73 = ideal gas constant with units of psia - cubic feet / lb mole - degrees Rankine
   P = the refinery fuel gas line pressure, in psia;
   T = the refinery fuel gas line temperature, in degrees Rankine; and
   M = the molecular weight of refinery fuel gas, in lb/lb mole.

   The molecular weight of the gas shall be calculated as follows:

   M = summation of (MWi x fi)

   where:

   MWi = the molecular weight of each chemical component of the refinery fuel gas, in lb/lb mole; and

   fi = the mole fraction of each chemical compound detected in the refinery fuel gas using gas chromatographic analysis.

9. 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 local air agency.

10. The permittee shall maintain daily records of each calculated, rolling, 3-hour average of the decimal (mass) fraction of sulfur in the refinery gas. The decimal (mass) fraction of sulfur shall be calculated as follows:

    S = (AH2S / 1 x 10^6) x 0.9408

    where:

    AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and

    0.9408 = the pound of sulfur per pound of hydrogen sulfide.

11. The permittee shall maintain daily records of the calculated, rolling, 3-hour SO2 emission rate for the refinery fuel gas based upon the rolling, 3-hour average of the sulfur content, daily heat content value, and daily density value of the refinery fuel gas. The SO2 emission rate shall be calculated as follows, in accordance with OAC rule 3745-18-04(F)(3):

    ERG = (1x10^6/H) x (D) x (S) x (1.998)

    where:

    ERG = each rolling, 3-hour average SO2 emission rate, in pounds of SO2 per mmBtu;
    H = the calculated daily average heat value of the fuel, in Btu/dscf of refinery fuel gas;
    D = the density value of the fuel, in pounds per dscf of refinery fuel gas; and
    S = each rolling, 3-hour average decimal (mass) fraction of sulfur in the refinery fuel gas.

12. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods:

    ASTM Method D4294 or ASTM Method 6010 for sulfur content; and ASTM Method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Canton local air agency.

13. The permittee shall also maintain records of the calculated SO2 emission rate, in pound(s) of SO2 per mmBtu of actual heat input, of each shipment of No. 6 fuel oil. The SO2 emission rate shall be calculated as follows in accordance with OAC rule 3745-18-04(F)(2):

    ERO = (1x 10^6/H) x (D) x (S) x (1.974)

where:

ERO = the SO2 emission rate, in pounds of SO2 per mmBtu;
H = the heat value of the fuel, in Btu/gallon of fuel;
D = the density of the fuel, in pounds per gallon; and
S = the mass fraction of sulfur in the fuel.

14. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall note the following in the operations log using the operator's experience or previous stack testing conditions as a reference:

    a. the color of the emissions
    b. whether the emissions are representative of normal operations;
    c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    d. the total duration of any visible emission incident; and
    e. any corrective actions taken to eliminate the visible emissions.

15. For each day during which the permittee burns a fuel other than refinery fuel gas, natural gas, and/or No. 6 fuel oil, 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.

16. For each shipment of fuel oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the density of the fuel oil, and the permittee's or oil supplier's analyses for sulfur content and heat content.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each SO2 emission rate, as calculated in section A.III.13, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of No. 6 fuel oil.

2. The permittee shall submit quarterly deviation (excursion) reports that identify each rolling, 3-hour average SO2 emission rate, as calculated in section A.III.11, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of refinery fuel gas.

3. The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than No. 6 fuel oil, refinery fuel gas, and/or natural gas is burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

4. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to

the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

5. The permittee shall submit reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency 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.

V. Testing Requirements

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

a. Emissions Limitation:

1.0 pound of S02 per mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in sections A.III.1, A.III.6 through A.III.13, and A.III.16.

If required, the permittee shall demonstrate compliance with the above SO2 emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Method 6 or one of its approved modifications and OAC rule 3745-17-03(B)(10).

b. Emission Limitation:

0.19 pound of particulates per mmBtu of actual heat input

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the above particulate emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:
If required, compliance shall be demonstrated based upon the requirements in OAC rule 3745-17-03(B)(1) and the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

2. The permittee shall perform on-going quality assurance tests for the H2S CEMS as required in section A.III.5 in accordance with the procedures specified in 40 CFR Part 60, Appendix F.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

   b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and SO2.

   c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A and for SO2, Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Ohio EPA.

   d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity while burning No. 6 fuel oil, unless otherwise specified or approved by the Canton local air agency.

4. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

   Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

   A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton local air agency.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is boiler number 11 having a maximum heat input of 140 MMBtu/hr. It is fired with refinery fuel gas, natural gas, or No. 6 fuel oil. It is designated as 4-16-B-11.	OAC rule 3745-18-82(E)	The SO2 emission limitation specified in OAC rule 3745-18-82(E) is equal to the SO2 emission limitation established in 40 CFR 52.1881(b)(27)(ix).

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a process boiler with a maximum heat input of 73.5 mmBtu/hr. It is fired with refinery fuel gas or natural gas. It is designated as 4-16-B-12.	40 CFR Part 60.104(a)(1)	See A.I.2.a below
	40 CFR 52.1881(b)(27)(ix)	1.0 pound of sulfur dioxide (SO2) per mmBtu of actual heat input
	OAC rule 3745-17-10(C)(1)	0.19 pound of particulates per mmBtu of actual heat input
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-31-05(A)(3) (PTI 15-023)	The requirements established pursuant to this rule are equivalent to the requirements of 40 CFR Part 60.104(a)(1), 40 CFR Part 52.1881(b)(27)(ix), OAC rule 3745-17-10(C)(1), and OAC rule 3745-17-07(A).

2. Additional Terms and Conditions

2.a The permittee shall not burn any refinery fuel gas in this emissions unit that contains hydrogen sulfide (H2S) in excess of 230 mg/dscm (0.10 gr/dscf).

II. Operational Restrictions

b. The permittee shall burn only refinery fuel gas or natural gas in this emissions unit. The sulfur content of the refinery fuel gas and natural gas burned in this emissions unit shall comply with the allowable SO2 emission limitation specified in section A.I.

c. All refinery fuel gas burned by this emissions unit shall be supplied from the south area fuel drum.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously sample and analyze the refinery fuel gas for sulfur 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/dscm of H2S.

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 local air agency upon request.

4. The permittee shall maintain records of all data obtained by the H2S CEMS including, but not limited to, parts per million of H2S on an instantaneous (1 - minute) basis, emissions of H2S in ppm as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.

5. Within 180 days of the effective date of this permit, the permittee shall develop a 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. A logbook dedicated to the monitoring system must be kept on site and available for inspection during regular office hours.

6. The permittee shall collect daily samples of refinery fuel gas for gas chromatographic analysis. Each sample shall be collected according to the following procedure:

   PURGE THE SAMPLE LINE:
   Before connecting the sample cyclinder to the sample draw, purge the sample line for 15 seconds with the sample valve nearest the sample outlet 25% open and all other sample valves 100% open. After purging, close the valve nearest the sample outlet.

   CONNECT THE CYLINDER TO THE REFINERY FUEL GAS LINE:
   After the sample line has been purged, connect the designated, empty, and labeled sample cylinder to the sample outlet. The sample cylinder must be filled from the top with the cylinder in the vertical position.

   FILL THE SAMPLE CYLINDER:

Close both valves on the sample cylinder. Open the sample valve about 25%. Open the top valve on the sample cylinder. Slowly open the bottom valve on the sample cylinder. Allow the sample to flow through the sample cylinder for about 5 seconds. Close the bottom cylinder valve. Close the top cylinder valve. Close the sample line valves.

DISCONNECT:
Remove the sample cylinder from the sample line and take the sample cylinder to the designated pickup location.

7. The permittee shall maintain daily records of the refinery fuel gas line pressure, in psia, and the refinery fuel gas temperature in degrees Rankine. Daily line pressure and gas temperature measurements shall be taken when the daily refinery fuel gas samples are collected.

8. The permittee shall maintain daily records of the density of the refinery fuel gas, the actual heating value of the refinery fuel gas, and the decimal fraction of sulfur in the refinery fuel gas as burned in this emissions unit. The actual heating value (H) and density (D) 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 heat content of each chemical compound detected in the refinery fuel gas, in Btu per pound of chemical.

D = (P x M) / (10.73 x T)

where:

10.73 = ideal gas constant with units of psia - cubic feet / lb mole - degrees Rankine
P = the refinery fuel gas line pressure, in psia;
T = the refinery fuel gas line temperature, in degrees Rankine; and
M = the molecular weight of refinery fuel gas, in lb/lb mole.

The molecular weight of the gas shall be calculated as follows:

M = summation of (MWi x fi)

where:

MWi = the molecular weight of each chemical component of the refinery fuel gas, in lb/lb mole; and

fi = the mole fraction of each chemical compound detected in the refinery fuel gas using gas chromatographic analysis.

9. 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 manufacturer's specifications and recommendations. Alternative, equivalent methods may be used upon written approval by the Canton local air agency.

10. The permittee shall maintain daily records of each calculated, rolling, 3-hour average of the decimal (mass) fraction of sulfur in the refinery gas. The decimal (mass) fraction of sulfur shall be calculated as follows:

    S = (AH2S / 1 x 10^6) x 0.9408

    where:

    AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
    0.9408 = the pound of sulfur per pound of hydrogen sulfide.

11. The permittee shall maintain daily records of the calculated, rolling, 3-hour SO2 emission rate for the refinery fuel gas based upon the rolling, 3-hour average of the sulfur content, daily heat content value, and daily density value of the refinery fuel gas. The SO2 emission rate shall be calculated as follows, in accordance with OAC rule 3745-18-04(F)(3):

    ERG = (1x10^6/H) x (D) x (S) x (1.998)

    where:

    ERG = each rolling, 3-hour average SO2 emission rate, in pounds of SO2 per mmBtu;
    H = the calculated daily average heat value of the fuel, in Btu/dscf of refinery fuel gas;
    D = the density value of the fuel, in pounds per dscf of refinery fuel gas; and
    S = each rolling, 3-hour average decimal (mass) fraction of sulfur in the refinery fuel gas.

xii. The permittee shall maintain records of each calculated rolling, 3-hour H2S average concentration in grains of H2S per dscf of refinery gas. The rolling, 3-hour H2S average shall be calculated as follows:

(AH2S x 10^6) x D = rolling, 3-hour H2S average (in gr/dscf)

where:

AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
D = the density value of the refinery fuel gas, in pounds per dscf of refinery fuel gas.

13. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall note the following in the operations log using the operator's experience or previous stack testing conditions as a reference:

    a. the color of the emissions
    b. whether the emissions are representative of normal operations;
    c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    d. the total duration of any visible emission incident; and
    e. any corrective actions taken to eliminate the visible emissions.

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

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.11, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of refinery fuel gas or natural gas.

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

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency 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.

5. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit H2S concentration reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency. 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).

6. If there are no concentrations of H2S in the refinery fuel gas greater than the value specified in section A.I.2.a during the calendar quarter, then the permittee shall submit a statement to that effect along with the emissions unit and monitor operating times. These quarterly reports shall be submitted by February 1, May 1, August 1 and November 1 of each year and shall address the data obtained during previous calendar quarters.

V. Testing Requirements

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

   a. Emission Limitation:

      1.0 pound of S02 per mmBtu of actual heat input

      Applicable Compliance Method:

      Compliance shall be demonstrated by the record keeping requirements specified in sections A.III.1 and A.III.6 through A.III.11.

      If required, the permittee shall demonstrate compliance with the above SO2 emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Method 6 or one of its approved modifications and OAC rule 3745-17-03(B)(10).

   b. Emission Limitation:

      0.19 pound of particulates per mmBtu of actual heat input

      Applicable Compliance Method:

      If required, the permittee shall demonstrate compliance with the above particulate emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

   c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the requirements in OAC rule 3745-17-03(B)(1) and the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

d. Emission Limitation:

0.10 gr/dscf of H2S

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.12. If required, the permittee shall demonstrate compliance with the above H2S emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Method 11.

2. The permittee shall perform on-going quality assurance tests for the H2S CEMS as required in section A.III.5 in accordance with the procedures specified in 40 CFR Part 60, Appendix F.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and SO2.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A and for SO2, Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Canton local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review

and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton local air agency.

4. The permittee shall conduct annual H2S concentration testing of the refinery fuel gas from the south area fuel drum as required by 40 CFR Part 60.13(c) and section A.III.5 to verify H2S CEMS performance in accordance with the following requirements:

   a. The emissions testing shall be conducted using 40 CFR Part 60, Appendix A, Method 11 for the purpose of conducting relative accuracy evaluations. The gases entering the sampling train should be at approximately atmospheric pressure. If the pressure in the refinery fuel gas lines is relatively high, a flow control valve may be used to reduce the pressure. If the line pressure is high enough to operate the sampling train without a vacuum pump, the pump may be eliminated from the train. The sample shall be drawn from a point near the centroid of the fuel gas line. The sampling time and sample volume shall be at least 10 minutes and 0.010 dscm (0.35 dscf), respectively. Two samples of equal sampling times shall be taken at about 1-hour intervals. The arithmetic average of these two samples shall constitute a run. For most fuel gases, sampling times exceeding 20 minutes may result in depletion of the collection solution, although fuel gases containing low concentrations of hydrogen sulfide may necessitate sampling for longer periods of time.

   b. The test shall be conducted while the emissions unit is operating at greater than 50% of normal load.

   Not later than 30 days prior to the proposed test date(s), the permittee shall submit an Intent to Test (ITT) Notification to the Canton local air agency. The ITT Notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the test may result in the refusal to accept the ITT.

   Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a process boiler with a maximum heat input of 73.5 mmBtu/hr. It is fired with refinery fuel gas or natural gas. It is designated as 4-16-B-12.	OAC rule 3745-18-82(E)	The SO2 emission limitation specified in OAC rule 3745-18-82(E) is equal to the SO2 emission limitation established in 40 CFR 52.1881(b)(27)(ix).

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a CCR Stabilizer Reboiler with a maximum heat input of 40 mmBtu/hr. It is fired with refinery fuel gas or natural gas. It is designated as 4-33-B-5.	40 CFR Part 60.104(a)(1)	See A.I.2.a below
	40 CFR 52.1881(b)(27)(ix)	1.00 pound of sulfur dioxide (SO2) per mmBtu of actual heat input
	OAC rule 3745-17-10(C)(1)	0.19 pound of particulates per mmBtu of actual heat input
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-31-05(A)(3) (PTI 15-023)	The requirements established pursuant to this rule are equivalent to the requirements of 40 CFR Part 60.104(a)(1), 40 CFR Part 52.1881(b)(27)(ix), OAC rule 3745-17-10(C)(1), and OAC rule 3745-17-07(A).

2. Additional Terms and Conditions

2.a The permittee shall not burn any refinery fuel gas in this emissions unit that contains hydrogen sulfide (H2S) in excess of 230 mg/dscm (0.10 gr/dscf).

II. Operational Restrictions

l. The permittee shall burn only refinery fuel gas or natural gas in this emissions unit. The sulfur content of the refinery fuel gas and natural gas burned in this emissions unit shall comply with the allowable SO2 emission limitation specified in section A.I.

m. All refinery fuel gas burned by this emissions unit shall be supplied from the south area fuel drum.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously sample and analyze the refinery fuel gas for sulfur 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/dscm of H2S.

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 local air agency upon request.

4. The permittee shall maintain records of all data obtained by the H2S CEMS including, but not limited to, parts per million of H2S on an instantaneous (1 - minute) basis, emissions of H2S in ppm as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.

5. Within 180 days of the effective date of this permit, the permittee shall develop a 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. A logbook dedicated to the monitoring system must be kept on site and available for inspection during regular office hours.

6. The permittee shall collect daily samples of refinery fuel gas for gas chromatographic analysis. Each sample shall be collected according to the following procedure:

   PURGE THE SAMPLE LINE:
   Before connecting the sample cyclinder to the sample draw, purge the sample line for 15 seconds with the sample valve nearest the sample outlet 25% open and all other sample valves 100% open. After purging, close the valve nearest the sample outlet.

   CONNECT THE CYLINDER TO THE REFINERY FUEL GAS LINE:
   After the sample line has been purged, connect the designated, empty, and labeled sample cylinder to the sample outlet. The sample cylinder must be filled from the top with the cylinder in the vertical position.

   FILL THE SAMPLE CYLINDER:

Close both valves on the sample cylinder. Open the sample valve about 25%. Open the top valve on the sample cylinder. Slowly open the bottom valve on the sample cylinder. Allow the sample to flow through the sample cylinder for about 5 seconds. Close the bottom cylinder valve. Close the top cylinder valve. Close the sample line valves.

DISCONNECT:
Remove the sample cylinder from the sample line and take the sample cylinder to the designated pickup location.

7. The permittee shall maintain daily records of the refinery fuel gas line pressure, in psia, and the refinery fuel gas temperature in degrees Rankine. Daily line pressure and gas temperature measurements shall be taken when the daily refinery fuel gas samples are collected.

8. The permittee shall maintain daily records of the density of the refinery fuel gas, the actual heating value of the refinery fuel gas, and the decimal fraction of sulfur in the refinery fuel gas as burned in this emissions unit. The actual heating value (H) and density (D) 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 heat content of each chemical compound detected in the refinery fuel gas, in Btu per pound of chemical.

D = (P x M) / (10.73 x T)

where:

10.73 = ideal gas constant with units of psia - cubic feet / lb mole - degrees Rankine
P = the refinery fuel gas line pressure, in psia;
T = the refinery fuel gas line temperature, in degrees Rankine; and
M = the molecular weight of refinery fuel gas, in lb/lb mole.

The molecular weight of the gas shall be calculated as follows:

M = summation of (MWi x fi)

where:

MWi = the molecular weight of each chemical component of the refinery fuel gas, in lb/lb mole; and

fi = the mole fraction of each chemical compound detected in the refinery fuel gas using gas chromatographic analysis.

9. 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 manufacturer's specifications and recommendations. Alternative, equivalent methods may be used upon written approval by the Canton local air agency.

10. The permittee shall maintain daily records of each calculated, rolling, 3-hour average of the decimal (mass) fraction of sulfur in the refinery gas. The decimal (mass) fraction of sulfur shall be calculated as follows:

    S = (AH2S / 1 x 10^6) x 0.9408

    where:

    AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
    0.9408 = the pound of sulfur per pound of hydrogen sulfide.

11. The permittee shall maintain daily records of the calculated, rolling, 3-hour SO2 emission rate for the refinery fuel gas based upon the rolling, 3-hour average of the sulfur content, daily heat content value, and daily density value of the refinery fuel gas. The SO2 emission rate shall be calculated as follows, in accordance with OAC rule 3745-18-04(F)(3):

    ERG = (1x10^6/H) x (D) x (S) x (1.998)

    where:

    ERG = each rolling, 3-hour average SO2 emission rate, in pounds of SO2 per mmBtu;
    H = the calculated daily average heat value of the fuel, in Btu/dscf of refinery fuel gas;
    D = the density value of the fuel, in pounds per dscf of refinery fuel gas; and
    S = each rolling, 3-hour average decimal (mass) fraction of sulfur in the refinery fuel gas.

xii. The permittee shall maintain records of each calculated rolling, 3-hour H2S average concentration in grains of H2S per dscf of refinery gas. The rolling, 3-hour H2S average shall be calculated as follows:

(AH2S x 10^6) x D = rolling, 3-hour H2S average (in gr/dscf)

where:

AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
D = the density value of the refinery fuel gas, in pounds per dscf of refinery fuel gas.

13. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall note the following in the operations log using the operator's experience or previous stack testing conditions as a reference:

    a. the color of the emissions
    b. whether the emissions are representative of normal operations;
    c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    d. the total duration of any visible emission incident; and
    e. any corrective actions taken to eliminate the visible emissions.

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

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.11, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of refinery fuel gas or natural gas.

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

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency 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.

5. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit H2S concentration reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency. 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).

6. If there are no concentrations of H2S in the refinery fuel gas greater than the value specified in section A.I.2.a during the calendar quarter, then the permittee shall submit a statement to that effect along with the emissions unit and monitor operating times. These quarterly reports shall be submitted by February 1, May 1, August 1 and November 1 of each year and shall address the data obtained during previous calendar quarters.

V. Testing Requirements

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

   a. Emission Limitation:

      1.0 pound of S02 per mmBtu of actual heat input

      Applicable Compliance Method:

      Compliance shall be demonstrated by the record keeping requirements specified in sections A.III.1 and A.III.6 through A.III.11.

      If required, the permittee shall demonstrate compliance with the above SO2 emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Method 6 or one of its approved modifications and OAC rule 3745-17-03(B)(10).

   b. Emission Limitation:

      0.19 pound of particulates per mmBtu of actual heat input

      Applicable Compliance Method:

      If required, the permittee shall demonstrate compliance with the above particulate emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

   c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the requirements in OAC rule 3745-17-03(B)(1) and the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

d. Emission Limitation:

0.10 gr/dscf of H2S

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.12. If required, the permittee shall demonstrate compliance with the above H2S emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Method 11.

2. The permittee shall perform on-going quality assurance tests for the H2S CEMS as required in section A.III.5 in accordance with the procedures specified in 40 CFR Part 60, Appendix F.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and SO2.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A and for SO2, Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Canton local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review

and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton local air agency.

4. The permittee shall conduct annual H2S concentration testing of the refinery fuel gas from the south area fuel drum as required by 40 CFR Part 60.13(c) and section A.III.5 to verify H2S CEMS performance in accordance with the following requirements:

   a. The emissions testing shall be conducted using 40 CFR Part 60, Appendix A, Method 11 for the purpose of conducting relative accuracy evaluations. The gases entering the sampling train should be at approximately atmospheric pressure. If the pressure in the refinery fuel gas lines is relatively high, a flow control valve may be used to reduce the pressure. If the line pressure is high enough to operate the sampling train without a vacuum pump, the pump may be eliminated from the train. The sample shall be drawn from a point near the centroid of the fuel gas line. The sampling time and sample volume shall be at least 10 minutes and 0.010 dscm (0.35 dscf), respectively. Two samples of equal sampling times shall be taken at about 1-hour intervals. The arithmetic average of these two samples shall constitute a run. For most fuel gases, sampling times exceeding 20 minutes may result in depletion of the collection solution, although fuel gases containing low concentrations of hydrogen sulfide may necessitate sampling for longer periods of time.

   b. The test shall be conducted while the emissions unit is operating at greater than 50% of normal load.

   Not later than 30 days prior to the proposed test date(s), the permittee shall submit an Intent to Test (ITT) Notification to the Canton local air agency. The ITT Notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the test may result in the refusal to accept the ITT.

   Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a CCR Stabilizer Reboiler with a maximum heat input of 40 mmBtu/hr. It is fired with refinery fuel gas or natural gas. It is designated as 4-33-B-5.	OAC rule 3745-18-82(E)	The SO2 emission limitation specified in OAC rule 3745-18-82(E) is equal to the SO2 emission limitation established in 40 CFR 52.1881(b)(27)(ix).

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a CCR charge heater with a maximum heat input of 267 mmBtu/hr. It is fired with refinery fuel gas or natural gas. It is designated as 4-33-B-4.	40 CFR Part 60.104(a)(1)	See A.I.2.a below
	40 CFR 52.1881(b)(27)(ix)	1.00 pound of sulfur dioxide (SO2) per mmBtu of actual heat input
	OAC rule 3745-17-10(C)(1)	0.19 pound of particulates per mmBtu of actual heat input
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-31-05(A)(3) (PTI 15-023)	The requirements established pursuant to this rule are equivalent to the requirements of 40 CFR Part 60.104(a)(1), 40 CFR Part 52.1881(b)(27)(ix), OAC rule 3745-17-10(C)(1), and OAC rule 3745-17-07(A).

2. Additional Terms and Conditions

2.a The permittee shall not burn any refinery fuel gas in this emissions unit that contains hydrogen sulfide (H2S) in excess of 230 mg/dscm (0.10 gr/dscf).

II. Operational Restrictions

l. The permittee shall burn only refinery fuel gas or natural gas in this emissions unit. The sulfur content of the refinery fuel gas and natural gas burned in this emissions unit shall comply with the allowable SO2 emission limitation specified in section A.I.

m. All refinery fuel gas burned by this emissions unit shall be supplied from the south area fuel drum.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously sample and analyze the refinery fuel gas for sulfur 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/dscm of H2S.

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 local air agency upon request.

4. The permittee shall maintain records of all data obtained by the H2S CEMS including, but not limited to, parts per million of H2S on an instantaneous (1 - minute) basis, emissions of H2S in ppm as a rolling, 3-hour average, the results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments.

5. Within 180 days of the effective date of this permit, the permittee shall develop a 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. A logbook dedicated to the monitoring system must be kept on site and available for inspection during regular office hours.

6. The permittee shall collect daily samples of refinery fuel gas for gas chromatographic analysis. Each sample shall be collected according to the following procedure:

   PURGE THE SAMPLE LINE:
   Before connecting the sample cyclinder to the sample draw, purge the sample line for 15 seconds with the sample valve nearest the sample outlet 25% open and all other sample valves 100% open. After purging, close the valve nearest the sample outlet.

   CONNECT THE CYLINDER TO THE REFINERY FUEL GAS LINE:
   After the sample line has been purged, connect the designated, empty, and labeled sample cylinder to the sample outlet. The sample cylinder must be filled from the top with the cylinder in the vertical position.

   FILL THE SAMPLE CYLINDER:

Close both valves on the sample cylinder. Open the sample valve about 25%. Open the top valve on the sample cylinder. Slowly open the bottom valve on the sample cylinder. Allow the sample to flow through the sample cylinder for about 5 seconds. Close the bottom cylinder valve. Close the top cylinder valve. Close the sample line valves.

DISCONNECT:
Remove the sample cylinder from the sample line and take the sample cylinder to the designated pickup location.

7. The permittee shall maintain daily records of the refinery fuel gas line pressure, in psia, and the refinery fuel gas temperature in degrees Rankine. Daily line pressure and gas temperature measurements shall be taken when the daily refinery fuel gas samples are collected.

8. The permittee shall maintain daily records of the density of the refinery fuel gas, the actual heating value of the refinery fuel gas, and the decimal fraction of sulfur in the refinery fuel gas as burned in this emissions unit. The actual heating value (H) and density (D) 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 heat content of each chemical compound detected in the refinery fuel gas, in Btu per pound of chemical.

D = (P x M) / (10.73 x T)

where:

10.73 = ideal gas constant with units of psia - cubic feet / lb mole - degrees Rankine
P = the refinery fuel gas line pressure, in psia;
T = the refinery fuel gas line temperature, in degrees Rankine; and
M = the molecular weight of refinery fuel gas, in lb/lb mole.

The molecular weight of the gas shall be calculated as follows:

M = summation of (MWi x fi)

where:

MWi = the molecular weight of each chemical component of the refinery fuel gas, in lb/lb mole; and

fi = the mole fraction of each chemical compound detected in the refinery fuel gas using gas chromatographic analysis.

9. 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 manufacturer's specifications and recommendations. Alternative, equivalent methods may be used upon written approval by the Canton local air agency.

10. The permittee shall maintain daily records of each calculated, rolling, 3-hour average of the decimal (mass) fraction of sulfur in the refinery gas. The decimal (mass) fraction of sulfur shall be calculated as follows:

    S = (AH2S / 1 x 10^6) x 0.9408

    where:

    AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
    0.9408 = the pound of sulfur per pound of hydrogen sulfide.

11. The permittee shall maintain daily records of the calculated, rolling, 3-hour SO2 emission rate for the refinery fuel gas based upon the rolling, 3-hour average of the sulfur content, daily heat content value, and daily density value of the refinery fuel gas. The SO2 emission rate shall be calculated as follows, in accordance with OAC rule 3745-18-04(F)(3):

    ERG = (1x10^6/H) x (D) x (S) x (1.998)

    where:

    ERG = each rolling, 3-hour average SO2 emission rate, in pounds of SO2 per mmBtu;
    H = the calculated daily average heat value of the fuel, in Btu/dscf of refinery fuel gas;
    D = the density value of the fuel, in pounds per dscf of refinery fuel gas; and
    S = each rolling, 3-hour average decimal (mass) fraction of sulfur in the refinery fuel gas.

xii. The permittee shall maintain records of each calculated rolling, 3-hour H2S average concentration in grains of H2S per dscf of refinery gas. The rolling, 3-hour H2S average shall be calculated as follows:

(AH2S x 10^6) x D = rolling, 3-hour H2S average (in gr/dscf)

where:

AH2S = rolling, 3-hour average of the H2S CEMS data, in ppm; and
D = the density value of the refinery fuel gas, in pounds per dscf of refinery fuel gas.

13. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall note the following in the operations log using the operator's experience or previous stack testing conditions as a reference:

    a. the color of the emissions
    b. whether the emissions are representative of normal operations;
    c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    d. the total duration of any visible emission incident; and
    e. any corrective actions taken to eliminate the visible emissions.

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

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.11, that exceeds the SO2 emission limitation of 1.0 pound of SO2 per mmBtu of actual heat input for the burning of refinery fuel gas or natural gas.

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

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency 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.

5. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit H2S concentration reports within thirty (30) days following the end of each calendar quarter to the Canton local air agency. 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).

6. If there are no concentrations of H2S in the refinery fuel gas greater than the value specified in section A.I.2.a during the calendar quarter, then the permittee shall submit a statement to that effect along with the emissions unit and monitor operating times. These quarterly reports shall be submitted by February 1, May 1, August 1 and November 1 of each year and shall address the data obtained during previous calendar quarters.

V. Testing Requirements

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

   a. Emission Limitation:

      1.0 pound of S02 per mmBtu of actual heat input

      Applicable Compliance Method:

      Compliance shall be demonstrated by the record keeping requirements specified in sections A.III.1 and A.III.6 through A.III.11.

      If required, the permittee shall demonstrate compliance with the above SO2 emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Method 6 or one of its approved modifications and OAC rule 3745-17-03(B)(10).

   b. Emission Limitation:

      0.19 pound of particulates per mmBtu of actual heat input

      Applicable Compliance Method:

      If required, the permittee shall demonstrate compliance with the above particulate emission limitation in accordance with the procedures and methods specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

   c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the requirements in OAC rule 3745-17-03(B)(1) and the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

d. Emission Limitation:

0.10 gr/dscf of H2S

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.12. If required, the permittee shall demonstrate compliance with the above H2S emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Method 11.

2. The permittee shall perform on-going quality assurance tests for the H2S CEMS as required in section A.III.5 in accordance with the procedures specified in 40 CFR Part 60, Appendix F.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and SO2.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A and for SO2, Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Canton local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review

and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton local air agency.

4. The permittee shall conduct annual H2S concentration testing of the refinery fuel gas from the south area fuel drum as required by 40 CFR Part 60.13(c) and section A.III.5 to verify H2S CEMS performance in accordance with the following requirements:

   a. The emissions testing shall be conducted using 40 CFR Part 60, Appendix A, Method 11 for the purpose of conducting relative accuracy evaluations. The gases entering the sampling train should be at approximately atmospheric pressure. If the pressure in the refinery fuel gas lines is relatively high, a flow control valve may be used to reduce the pressure. If the line pressure is high enough to operate the sampling train without a vacuum pump, the pump may be eliminated from the train. The sample shall be drawn from a point near the centroid of the fuel gas line. The sampling time and sample volume shall be at least 10 minutes and 0.010 dscm (0.35 dscf), respectively. Two samples of equal sampling times shall be taken at about 1-hour intervals. The arithmetic average of these two samples shall constitute a run. For most fuel gases, sampling times exceeding 20 minutes may result in depletion of the collection solution, although fuel gases containing low concentrations of hydrogen sulfide may necessitate sampling for longer periods of time.

   b. The test shall be conducted while the emissions unit is operating at greater than 50% of normal load.

   Not later than 30 days prior to the proposed test date(s), the permittee shall submit an Intent to Test (ITT) Notification to the Canton local air agency. The ITT Notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the test may result in the refusal to accept the ITT.

   Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a CCR charge heater with a maximum heat input of 267 mmBtu/hr. It is fired with refinery fuel gas or natural gas. It is designated as 4-33-B-4.	OAC rule 3745-18-82(E)	The SO2 emission limitation specified in OAC rule 3745-18-82(E) is equal to the SO2 emission limitation established in 40 CFR 52.1881(b)(27)(ix).

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a bulk gasoline terminal used for the transfer of gasoline, diesel, and kerosene to and from trucks and storage vessels. This emissions unit is designated as J001 and is equipped with a McGill activated carbon vapor processing unit.	40 CFR Part 63, Subpart R	See sections A.I.2.a and A.I.2.b.
	40 CFR Part 63, Subpart A	See section A.I.2.c.
	OAC rule 3745-21-09(Q)	The control measures specified in OAC rule 3745-21-09(Q) are less stringent than those specified in 40 CFR Part 63, Subpart R.
	OAC rule 3745-31-05(A)(3) (PTI 15-0384)	See section A.I.2.f.

2. Additional Terms and Conditions

2.a [40 CFR Part 63.422(b)]
Emissions from the vapor collection and processing system due to the loading of gasoline cargo tanks (tank trucks or railroad cars) shall not exceed 10 milligrams of total organic compounds (OC) per liter of gasoline loaded (0.083 pound of OC per 1000 gallons of gasoline loaded).

2.b [40 CFR Part 60.502(a) and 40 CFR Part 60.502(d)]
The permittee shall employ a vapor processing system designed to collect all of the OC vapors displaced from cargo tanks during loading. Each vapor processing system shall be designed to prevent any OC vapors collected at one loading rack from passing to another.

2.c 40 CFR Part 63, Subpart A provides applicability provisions, definitions, and other general provisions that are applicable to 40 CFR Part 63, Subpart R.

2.d [40 CFR Part 60.502(h) and 40 CFR Part 60.502(i)]
The vapor collection and liquid loading equipment shall be designed and operated to prevent the gauge pressure in the delivery tank from exceeding 4,500 pascals (450 mm of water) during

loading. No pressure-vacuum vent in the terminal's vapor collection system shall begin to open at a system pressure less than 4,500 pascals.

2.e [40 CFR Part 63.427(b)]
The permittee shall operate the vapor processing system in a manner that will not cause an exceedance of the OC concentration in the exhaust air stream from the carbon absorption system as determined during the most recent stack test that demonstrated compliance.

2.f The requirements established pursuant to this rule are equivalent to the requirements of 40 CFR Part 63, Subparts A and R.

II. Operational Restrictions

l. [40 CFR Part 60.502(e)(1) and 40 CFR Part 60.502(e)(6)]
The permittee shall load liquid product into vapor-tight gasoline cargo tanks. All gasoline loading lines, unloading lines and vapor lines shall be equipped with vapor tight fittings. Alternate procedures to those described in these terms and conditions for assuring vapor-tight operation of a gasoline cargo tank shall be approved by the Administrator and the City of Canton Health Department, Division of Air Pollution Control (CCHD, DAPC).

2. 40 CFR Part 60.502(f) and 40 CFR Part 60.502(g)]
The permittee shall load only gasoline cargo tanks at the affected facility that are equipped with vapor collection equipment that is compatible with the terminal's vapor collection system. The permittee shall assure that the terminal and cargo tank vapor collection systems are connected during each loading of a gasoline tank truck at the affected facility.

3. The permittee shall not permit gasoline to be spilled, discarded in sewers, stored in open containers or handled in any other manner that would result in evaporation.

4. [40 CFR Part 60.502(e)(5) referenced from 40 CFR Part 63.422(c)]
The permittee shall take steps to assure that the non-vapor-tight gasoline cargo tank will not be reloaded at the facility until vapor tightness documentation for that gasoline cargo tank is obtained which documents that:

a. the gasoline cargo tank meets the applicable test requirements in 40 CFR Part 63.425(e); and

b. for each gasoline cargo tank failing the test in 40 CFR Part 63.425(f) or (g) at the facility, the cargo tank either:

i. meets the test requirements in 40 CFR Part 63.425(f) or (g) before repair work is performed on the cargo tank; or

ii. passes the annual certification test described in 40 CFR Part 63.425(e) after the repair work is performed on the cargo tank or before or during the tests in 40 CFR Part 63.425(f) or (g).

5. Any liquid gasoline returned to a stationary storage tank located at the terminal from the vapor processing system shall be free of entrained air to the extent possible with good engineering design.

6. The vapor processing system shall be equipped with a means to prevent drainage of gasoline from the loading device when it is not in use or to accomplish complete drainage before the device is disconnected during transfer of gasoline to a delivery vessel.

7. [40 CFR Part 63.424(g)]
The permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

   a. minimize gasoline spills;

   b. clean up spills as expeditiously as practicable;

   c. cover all open gasoline containers with a gasketed seal when not in use; and

   d. minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices.

8. The permittee shall repair, within 15 days, any leak from the vapor control system when such a leak is equal to or greater than 100% of the lower explosive limit as propane, as determined under OAC rule 3745-21-10(K).

III. Monitoring and/or Recordkeeping Requirements

1. [40CFR Part 63.427(a)]
The permittee shall operate, certify, maintain, and calibrate a continuous monitoring system as specified below in accordance with the manufacturer's specifications and 40 CFR Part 63.8. The continuous emission monitoring system (CEMS) shall continuously measure OC concentrations, in ppm, and shall be used to demonstrate compliance with the 10 milligrams of total organic compounds per liter of gasoline loaded limitation.

2. The permittee shall operate and maintain the existing equipment to continuously monitor and record the VOC emissions from this emissions unit, in ppm, with the detection principle of the reference method specified in this permit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

3. The permittee shall maintain records of all data obtained by the VOC CEMS including, but not limited to, ppm of VOC on an instantaneous (36-second) basis in one-hour, and three-hour averaging periods, results of daily zero/span calibration checks, and the magnitude of manual calibration adjustments.

4. A statement of certification of the existing VOC 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 6. Proof of certification shall be made available to the Director of Ohio EPA or the Canton local air agency upon request.

5. The permittee shall monitor and maintain hourly records of the average hourly discharge rate, in dscf/min, and temperature, in degrees F, of the discharge air from the vapor recovery unit.

f. The permittee shall calculate and maintain hourly records of the average hourly VOC emission rate, in pounds VOC/hour, from the vapor processing system. The average hourly VOC mass emission rate shall be calculated as follows:

$$(Cvoc \times 10^6) \times [(P \times M) / (R \times T)] \times Vair \times 60 = VOC$$

where:

Cvoc = average hourly concentration of VOC in the discharge from the vapor recovery system, in ppm;

P = 14.7 psia, atmospheric pressure;

M = average molecular weight of gasoline;

R = universal gas constant: 10.7 psia - lb/lbmole / degree Rankine - cubic feet;

T = temperature, in degrees Rankin;

Vair = volumetric discharge flow rate from the vapor recovery unit, in dscf/minute; and

VOC = average hourly VOC mass emission rate, pounds of VOC/hour.

g. The permittee shall monitor and maintain records of the number of gallons of gasoline processed through this emission unit per hour.

h. The permittee shall calculate and maintain hourly records of the average hourly mass emission rate of VOC, in lbs of VOC/1000 gallons of gasoline processed through this emissions unit. This shall be calculated by dividing the average hourly VOC mass emission rate calculated in section A.III.6 by the total number of gallons of gasoline processed each hour and divided by 1000.

i. The permittee shall calculate and maintain hourly records of the rolling, 3-hour average of the number of pounds of VOC/1000 gallons. This value shall be used to demonstrate compliance with the allowable emission rate of 0.83 pound of VOC/1000 gallons of gasoline processed.

10. [40 CFR Part 60.502(e)(2) and 40 CFR Part 60.502(e)(3)]
The permittee shall require the tank identification number to be recorded as each gasoline cargo tank is loaded at the affected facility. The permittee shall cross check each tank identification number to be recorded with the file of tank vapor tightness documentation within 2 weeks after the corresponding tank is loaded.

11. [40 CFR Part 60.505(b) as referenced from 40 CFR Part 60.502(e)(1)]
The permittee shall obtain vapor tightness documentation for each gasoline cargo tank. It shall be maintained in a documentation file and updated at least once per year to reflect current test results as determined by Method 27. This documentation shall include, as a minimum, the following information:

a. test title: Gasoline Delivery Tank Pressure Test - EPA Reference Method 27;

b. tank owner and address;

c. tank identification number;

d. testing location;

e. date of test;

f. tester name and signature;

g. witnessing inspector, if any: name, signature, and affiliation; and

h. test results: actual pressure change in 5 minutes, mm of water (average for 2 runs).

12. [40 CFR Part 60.505(c)]
The permittee shall maintain records of the following information in a readily accessible location for at least 5 years and shall immediately make these records available to the Director upon verbal or written request:

a. the daily quantity of all gasoline loaded into gasoline tank trucks; and

b. the results of any leak checks, including, at a minimum, the following information:

i. the date of the inspection;
ii. the findings (may indicate no leaks discovered or location, nature, and severity of each leak);
iii. the leak determination method;

iv. the corrective action (date each leak repaired and reasons for any repair interval in excess of fifteen calendar days); and
v. the inspector's name and signature.

13. [40 CFR Part 63.428(b)]
The permittee shall keep records of the test results for each gasoline cargo tank loading at the facility as follows:

a. annual certification testing performed under section A.V.4;

b. continuous performance testing performed at any time at the facility under section A.V; and

c. the documentation for each test shall include, as a minimum, the following information:

i. name of test: Annual Certification Test—Method 27, Annual Certification Test—Internal Vapor Valve, Leak Detection Test, Nitrogen Pressure Decay Field Test or Continuous Performance Pressure Decay Test;
ii. cargo tank owner's name and address;
iii. cargo tank identification number;
iv. test location and date;
v. tester name and signature;
vi. witnessing inspector, if any: name, signature, and affiliation; and
vii. vapor tightness repair: nature of repair work and when performed in relation to vapor tightness testing.

The documentation file shall be kept up-to-date for each gasoline cargo tank loading at the facility.

14. [40 CFR Part 63.428(c)(1)]
The permittee shall keep an up-to-date, readily accessible record of all continuous monitoring data. This record shall indicate the time intervals during which loadings of gasoline cargo tanks have occurred or, alternatively, shall record the operating parameter data only during such loadings. The date and time of day shall also be indicated at reasonable intervals on this record.

15. [40 CFR Part 63.428(c)(2)]
The permittee shall maintain records of the following:

a. all data and calculations, engineering assessments, and manufacturing recommendations used in determining the operating parameter value; and

b. the following information when using a flare under provisions of 40 CFR Part 63.11(b):

i. flare design (i.e., steam assisted, air assisted, or non-assisted); and
ii. all visible emissions readings, heat content determinations, flow rate measurements, and exit velocity determinations made during the compliance determinations.

16. [40 CFR Part 63.424(a)]
The permittee shall perform a monthly leak inspection of all equipment in gasoline service. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. Each piece of equipment shall be inspected during the loading of a gasoline cargo tank.

17. [40 CFR Part 63.428(e) as referenced from 40 CFR Part 63.424(b)]
The permittee shall maintain a log book containing records of each leak inspection. The log records shall contain a list, summary description, or diagram showing the location of all equipment in gasoline service at the facility. It shall also contain the following for each leak detected:

    a. the equipment type and identification number;

    b. the nature of the leak (i.e., vapor or liquid) and the method of detection;

    c. the date the leak was detected and the date of each attempt to repair the leak;

    d. the repair methods applied in each attempt to repair the leak;

    e. "repair delayed" and the reason for the delay if the leak is not repaired within 15 days after discovery;

    f. the expected date of successful repair of the leak; and

    g. the date of successful repair of the leak.

18. [40 CFR Part 63.425(f)]
As an alternative to the leak monitoring requirements in the terms and conditions of this emissions unit, the permittee may implement the equipment leak provisions required under the facility section of this permit.

19. [40 CFR Part 63.424(c)]
The permittee shall record the detection of a liquid or vapor leak in a log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after the detection of each leak, except as provided in section A.III.13.

20. [40 CFR Part 63.424(d)]
Delay of repair of leaking equipment will be allowed upon a demonstration to the Administrator that repair within 15 days is not feasible. The permittee shall provide reasons for the delay and the date by which each repair is expected to be completed.

IV. Reporting Requirements

1. [40 CFR Part 60.502(e)(4)]

The permittee shall notify the owner or operator of each non-vapor- tight gasoline cargo tank loaded at the affected facility within 3 weeks after the loading has occurred. The permittee shall take steps assuring that the non-vapor-tight gasoline cargo tank will not be reloaded at the affected facility until vapor tightness documentation for that tank is obtained which documents that the gasoline cargo tank meets the applicable test requirements in section A.V.

2. The permittee shall submit a deviation report indicating any equipment leaks of vapor or liquid that are not repaired within 15 days after identification. The permittee shall provide reasons why the repairs could not be completed in 15 days after identification and the date when the repair will be completed. The report shall be submitted within 30 days after identification of the leak.

3. [40 CFR Part 63.428(g)]
The permittee shall submit a semi-annual report to the Canton local air agency of each loading occurrence of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility. This report shall also include the number of equipment leaks not repaired within 5 days after detecting the leak.

4. [40 CFR Part 63.428(h) and 40 CFR Part 63.10(e)(3)]
The permittee shall submit an excess emissions report to the Canton local air agency in accordance with 40 CFR Part 63.10(e)(3). The permittee shall submit all reports to the Canton local air agency on a quarterly basis.

All excess emissions and monitoring system performance reports shall be post marked on the 30th day following the end of the quarter. The reports shall include all the information required in 40 CFR Parts 63.10(c)(5) through 40 CFR Parts 63.10(c)(13) and sections 40 CFR Parts 63.8(c)(7) and 63.8(c)(8). These reports shall contain the name, title, and signature of the responsible official who is certifying the accuracy of the report. The reports shall also specify if there are no exceedances or that the VOC CEMS is out of service and provide the reason why it is out of service.

The permittee shall submit one summary report identifying the VOC monitored at the emissions unit. The summary report shall be entitled "Summary Report-Gaseous Excess Emission and Continuous Monitoring System Performance " and shall contain the items specified below:

1. the company name and address;

2. an identification of each hazardous air pollutant monitored at the emission unit;

3. the beginning and ending dates of the reporting period;

4. a brief description of the process units;

5. the emission and operating parameter limitations specified in the relevant standard(s);

6. the monitoring equipment manufacturer(s) and model number(s);

7. the date of the latest CMS certification or audit;

8. the total operating time of the affected source during the reporting period;

9. an emission data summary (or similar summary if the owner or operator monitors control system parameters), including the total duration of excess emissions during the reporting period (recorded in minutes for opacity and hours for gases), the total duration of excess emissions expressed as a percent of the total source operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to startup/shutdown, control equipment problems, process problems, other known causes, and other unknown causes;

10. a CMS performance summary (or similar summary if the owner or operator monitors control system parameters), including the total CMS downtime during the reporting period (recorded in minutes for opacity and hours for gases), the total duration of CMS downtime expressed as a percent of the total source operating time during that reporting period, and a breakdown of the total CMS downtime during the reporting period into periods that are due to monitoring equipment malfunctions, nonmonitoring equipment malfunctions, quality assurance/quality control calibrations, other known causes, and other unknown causes;

11. a description of any changes in CMS, processes, or controls since the last reporting period;

12. the name, title, and signature of the responsible official who is certifying the accuracy of the report; and

13. the date of the report.

If the total duration of process operating parameter exceedances for the reporting period is less than 1 percent of the total operating time for the reporting period, and the CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only a summary report shall be submitted. The full excess emissions and continuous monitoring system performance report need not be submitted under these circumstances.

5. [40 CFR Part 63.428(h)]
The following are reportable excess emissions events. Documentation of these occurrences shall be included in the excess emissions report:

a. Each exceedance or failure to maintain, as appropriate, the monitored operating parameter value determined under section A.V.1.b. The report shall include the monitoring data for the days on which exceedances or failures to maintain have occurred, and a description and timing of the steps taken to repair or perform maintenance on the vapor collection and processing systems or the CEM.

b. Each instance of a non-vapor-tight gasoline cargo tank loading at the facility in which the permittee failed to take steps to assure that such cargo tank would not be reloaded at the facility before vapor tightness documentation for that cargo tank was obtained.

c. Each reloading of a non-vapor-tight gasoline cargo tank at the facility before vapor tightness documentation for that cargo tank is obtained by the facility.

d. For each occurrence of an equipment leak for which no repair attempt was made within 5 days or for which repair was not completed within 15 days after detection:

i. the date on which the leak was detected;
ii. the date of each attempt to repair the leak;
iii. the reasons for the delay of repair; and
iv. the date of successful repair.

6. The permittee shall submit a deviation report to the Canton local air agency of any change in the description, types, identification numbers, and locations of the equipment in gasoline service at the facility.

G. The permittee shall submit quarterly deviation (excursion) reports that identify each calculated VOC mass emission rate, in pounds of VOC/1000 gallons of gasoline processed, that exceeded the allowable mass emission rate of 0.83 pound of VOC/1000 gallons of gasoline processed.

V. Testing Requirements

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

a. Emission Limitation:

Emissions from the vapor collection and processing system due to the loading of gasoline cargo tanks (tank trucks or railroad cars) shall not exceed 10 milligrams of total OC per liter of gasoline loaded (0.083 pound of OC per 1000 gallons of gasoline loaded).

Applicable Compliance Method:

The permittee shall demonstrate compliance based on the monitoring and record keeping requirements specified in section A.III.1.

If required, the permittee shall demonstrate compliance by conducting a stack test in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 25.

b. Control Measure:

The vapor collection and liquid loading equipment shall be designed and operated to prevent the gauge pressure in the delivery tank from exceeding 4,500 pascals (450 mm of water) during loading.

Applicable Compliance Method:

The permittee shall demonstrate compliance during performance tests where the pressure shall be recorded every 5 minutes while a gasoline truck is being loaded; the highest instantaneous pressure that occurs during each loading shall also be recorded.

2. Within twelve (12) months following the issue date of this permit and twelve (12) months prior to the expiration of this permit, the permittee shall conduct an emission test for this emissions unit in order to determine continuing compliance with the allowable emission rate for OC and to reestablish the operating parameter value for this emissions unit in accordance with section A.V.3. This test shall be conducted between the months of May through August.

   The permittee shall use as reference methods and procedures the test methods in Appendix A of 40 CFR Part 60 or other methods and procedures as specified in 40 CFR Part 60.503(c), except as provided in 40 CFR Part 60.8(b). During any performance test, the permittee shall document the reasons for any change in the operating parameter value since the previous performance test. The three run requirement in 40 CFR Part 60.8(f) does not apply to this emissions unit.

   Not later than 30 days prior to the proposed test date, the permittee shall submit an "Intent to Test" (ITT) notification to the Canton local air agency. The notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time and date of the test, and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the test.

   A pressure measurement device capable of measuring up to 500 mm of water gauge pressure with plus or minus 2.5 mm of water precision shall be calibrated and installed on the terminal's vapor collection system at a pressure tap located as close as possible to the connection with the gasoline cargo tank. During the performance test, the pressure shall be recorded every 5 minutes while a gasoline truck is being loaded; the highest instantaneous pressure that occurs during each loading shall also be recorded. Every loading position must be tested at least once during the performance test. Personnel from the Canton local air agency shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or performance of the control equipment.

   A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the test.

3. [40 CFR Part 63.425(b)]
For each performance test conducted, the permittee shall determine a monitored operating parameter value for the vapor processing system using the following procedure:

   a. during the performance test, continuously record the VOC concentration operating parameter described in section A.III.1 of these terms and conditions.

   b. determine an operating parameter value based on the parameter data monitored during the performance test, supplemented by engineering assessments and the manufacturer's recommendations; and

   c. provide, for approval by the Canton local air agency and the Ohio EPA, the rationale for the selected operating parameter value and monitoring frequency and averaging time, develop the value and a description of why the value, monitoring frequency, and averaging time demonstrate continuous compliance with the emission standard in section A.I.2.a.

4. The permittee shall conduct an annual certification test for gasoline cargo tanks that shall consist of the following test methods and procedures:

   a. 40 CFR Part 60, Appendix A, Method 27 and the test methods and procedures in 40 CFR Part 63.425(e); and

   b. a pressure test of the cargo tank's internal vapor valve in accordance with 40 CFR Part 63.425(e).

5. The leak detection test shall be performed using 40 CFR Part 60, Appendix A, Method 21 and the test methods and procedures in 40 CFR 63.425(f).

6. For those cargo tanks with manifolded product lines, the permittee shall use the test procedure specified in 40 CFR Part 63.425(g).

7. The continuous performance pressure decay test shall be performed using 40 CFR Part 60, Appendix A, Method 27 and as specified in 40 CFR Part 63.425(h).

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a Fluidized Catalytic Cracking (FCC) unit having an average processing capacity of 23,000 barrels per day of fresh feed. This emissions unit is not subject to the requirements of 40 CFR Part 60, Subpart J, but is subject to the requirements of a Consent Decree between the United States of America and Ashland Oil Inc. See section A.VI.1, "Miscellaneous Requirements", for more details.	40 CFR Part 52.1881(b)(27)(ix)	0.62 pound of sulfur dioxide (SO2)/1000 pounds of fresh feed
	40 CFR Part 63.648 (Subpart CC)	See section A.I.2.a.
	OAC rule 3745-21-09(T)	See section A.I.2.a.
	OAC rule 3745-17-07(A)(1)(a)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(A)(4)	77 lbs/hr of particulate emissions
	OAC rule 3745-21-09(VV)	See sections A.I.2.b, A.I.2.d, and A.VI.2.

2. Additional Terms and Conditions

2.a The permittee shall comply with all applicable equipment leak terms and conditions found in the Facility Section of this permit. The applicable requirements found in 40 CFR Part 60.648 (Subpart CC) are as stringent as the requirements found in OAC rule 3745-21-09(T).

2.b The temperature of the flue gas exiting the regenerator section of the FCC unit shall not be less than 1300 degrees Fahrenheit while the FCC is operating. The temperature shall be monitored at the point where the flue gas exits the regenerator.

2.c The oxygen content of the flue gas shall be maintained at 0.5%, by volume, or greater, at all times.

2.d The restrictions specified in sections A.I.2.b and A.I.2.c are for the purpose of maintaining the organic compound emission rate below 30 pounds of OC/hr. This emission limitation was set forth in and as part of a settlement agreement between Ohio EPA and Ashland Oil, Inc. (EBR 891379; December 4, 1992).

II. Operational Restrictions

g. The FCC unit regenerator shall be operated with the following restrictions:

a. The regenerator shall be operated in a total burn mode.

b. The catalyst cooler shall be employed when the regenerator is in operation.

2. The permittee shall not feed cold catalyst at a rate in excess of 0.15 ton cold catalyst/hr during the operation of this emissions unit.

3. The permittee shall add to the feed stream of the FCC unit a sulfur catalyzing chemical compound capable of reducing sulfur oxides in the flue gas to below 0.62 lb of SO2/1000 lbs of fresh feed. The permittee shall add the sulfur reducing catalyst (SRC) at a continuous, fixed rate of not less than 135 lbs of SRC/day during the FCC operating hours. The permittee shall monitor the sulfur feed rate to the FCC and adjust the feed rate of the SRC in order to maintain an SO2 emission rate below the applicable SO2 emission limitation. Should the SRC feed rate require adjustment, the adjustment shall be determined as specified in section A.III.4.b.

4. The permittee shall operate and maintain a flare system in accordance with 40 CFR Part 63.11(b) to control emissions resulting from venting of the FCC Main Column Overhead.

III. Monitoring and/or Recordkeeping Requirements

1. Pursuant to the requirements of 40 CFR Part 51, Appendix P, "Minimum Emission Monitoring Requirements", the permittee shall operate and maintain a continuous opacity monitoring system (COM) for continuously monitoring and recording the opacity of particulate emissions from this emissions unit. The COM shall comply with the requirements specified in 40 CFR Part 60.13. The continuous emission monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

a. The permittee shall maintain records of all data obtained by the COM system including percent opacity on an instantaneous (one-minute) and six-minute block average basis, results of daily zero/span calibration checks, and magnitude calibration adjustments.

b. A statement of certification of the existing continuous opacity monitoring system shall be maintained on site and shall include a letter from Ohio EPA detailing the results of an agency review of the certification tests and a statement by Ohio EPA that the system is considered

certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. Proof of certification shall be made available to the Canton LAA upon request.

2. The permittee shall continue to operate and maintain existing equipment to continuously monitor and record oxygen from this emissions unit in units of percent oxygen. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

   a. The permittee shall maintain records of all data obtained by the continuous oxygen monitoring system including, but not limited to, percent oxygen on a instantaneous (one-minute) basis, results of daily zero/span calibration checks, and magnitude of manual calibration. Records shall be maintained at the facility for a period not less than three years.

   ii. The permittee shall monitor, calculate, and record the average percent oxygen level for each hour of operation of the FCC unit.

   c. A statement of certification of the existing continuous oxygen monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 3. Proof of certification shall be made available to the Canton local air agency upon request.

3. The permittee shall utilize a continuous temperature monitoring system to calculate and record the rolling three-hour average temperature of the regenerator flue gas for each hour of operation of the FCC unit. The temperature shall be measured in units of degrees Fahrenheit. The monitoring device shall consist of a type K thermocouple having an accuracy of at least +/- 0.35% or better. The monitor and recording device shall be operated and maintained in accordance with the manufacturer's recommendations.

4. The permittee shall maintain daily records of the following:

   a. the amount of fresh feed processed through this emissions unit, in barrels per day;

   b. the sulfur content of the fresh feed to the FCC, in weight percent;

   c. the sulfur content of the discharge stream from the FCC unit, in weight percent; and

   d. the number of operating hours for the FCC unit per day.

v. Daily samples of the feed and discharge stream of the FCC shall be collected and analyzed for sulfur content in accordance with one of the following:

   a. ASTM Method D4294;
   b. ASTM Method D240; or

c. ASTM Method 6010.

Alternative, equivalent methods may be used upon written approval from the Canton local air agency.

6. The permittee shall maintain daily records of the calculated sulfur feed rate to the FCC and sulfur discharge rate from the FCC, in pounds of sulfur/day. The sulfur feed and discharge rates shall be calculated as follows:

(F x d x S) x 42 gallons/barrel = the sulfur feed rate and discharge rate to the FCC

where:

F = feed or discharge rate to the FCC, in barrels/day;
d = density of the feed or discharge material to the FCC, in pounds per gallon; and
S = sulfur weight fraction in the feed or discharge of the FCC, in pounds of sulfur per pound of feed.

7. The permittee shall maintain daily records of the calculated sulfur dioxide emission rate, in pounds of sulfur per 1000 pounds of fresh feed. The sulfur dioxide emission rate shall be calculated as follows:

(sulfur feed rate - sulfur discharge rate) x (2 pounds sulfur dioxide generated per pound of sulfur)
/ FCC fresh feed rate, in thousands of pounds of fresh feed/day.

8. The permittee shall maintain daily records of the number of lbs of SRC compound is fed into the FCC fresh feed stream during the FCC operating hours and the calculated SRC feed rate in pounds of SRC/day.

9. The permittee shall maintain daily records of the average cold catalyst addition rate in tons of cold catalyst/hr. The cold catalyst addition rate shall be calculated by dividing the amount of cold catalyst added to the emissions unit in a day by the number of operating hours per day.

IV. Reporting Requirements

a. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the Canton local air agency documenting all instances of opacity values in excess of the limitations specified in OAC rule 3745-17-07, detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective actions taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

2. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Canton local air agency documenting any continuous opacity monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit 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 reports.

3. 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 emissions unit, control equipment, and/or monitoring systems malfunctions. The total operating time of the emissions was on line also shall be included in the quarterly report. The quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

4. The permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60.7. The summary shall be submitted to the Canton local air agency within 30 days following the end of each calendar quarter in a manner prescribed by the Canton local air agency.

5. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the Canton local air agency documenting all instances when the hourly average oxygen values deviate from the limitation specified in OAC 3745-21-09(VV), detailing the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any).

   The permittee shall submit reports within 30 days following the end of each calendar quarter to the Canton local air agency documenting any continuous oxygen monitoring system downtime while the emissions unit was on line (date, time, duration, and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit 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 reports. If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect.

6. The permittee shall submit quarterly deviation (excursion) reports that identify each period when the maximum cold catalyst addition rate exceeds 0.15 ton/hr.

7. The permittee shall submit quarterly deviation (excursion) reports that identify each period when the SRC addition rate falls below 135 lbs of SRC per day.

8. The permittee shall submit quarterly deviation (excursion) reports that identify each period when the calculated sulfur dioxide emission rate exceeds the sulfur dioxide emission limitation in section A.I.1.

b. The permittee shall submit quarterly deviation (excursion) reports that identify each period when any rolling, 3-hour average temperature is below 1300 degrees Fahrenheit.

V. Testing Requirements

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

a. Emission Limitation:

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

Applicable Compliance Method:

Compliance shall be demonstrated by the use of a continuous opacity monitoring system as specified in section A.III.1.

b. Emission Limitation:

The regenerator exhaust gas temperature and oxygen content shall not be less than 1300 degrees Fahrenheit and 0.5% oxygen, by volume, respectively.

Applicable Compliance Method:

Compliance shall be demonstrated by the use of continuous oxygen and temperature monitoring systems as specified in sections A.III.2 and A.III.3.

c. Emission Limitation:

The permittee shall comply with all applicable equipment leak terms and conditions found in the General Terms and Conditions of this permit.

Applicable Compliance Method:

Compliance shall be demonstrated by the monitoring, record keeping, and reporting requirements specified in the facility section of this permit.

d. Emission Limitation:

0.62 pound of SO2/1000 pounds of fresh feed

Applicable Compliance Method:

Compliance shall be demonstrated by the monitoring and record keeping requirements specified in sections A.III.4 through A.III.8 of this permit. If required, compliance shall be demonstrated by using USEPA Method 6 (40 CFR Part 60, Appendix A).

e. Emission Limitation:

77 lbs/hr of particulate emissions

Applicable Compliance Method:

If required, compliance shall be demonstrated by using USEPA Methods 1 through 5 (40 CFR Part 60, Appendix A).

2. Emission Testing Requirements:

a. The permittee shall conduct emission testing for this emissions unit within 6 months following the effective date of this permit, within a time period of 2.5 to 3 years following the first emission test, and within 6 months prior to the expiration date of the permit. The emissions testing shall consist of the following tests utilizing methods from 40 CFR Part 60, Appendix A:

Particulate Matter	-	USEPA Methods 1 through 5;
Sulfur Dioxide	-	USEPA Method 6; and
Organic Compounds	-	USEPA Method 25 or 25A.

b. All stack tests shall be conducted while the emissions unit is operating at its maximum capacity. The FCC emission unit's maximum capacity shall consist of processing sour crude, operating at the FCC's maximum catalyst recirculation rate and operating at the maximum hourly cold catalyst addition rate. The FCC shall otherwise be operated under "normal operating parameters" during the test. The normal operating test parameters for the FCC shall be submitted as part of the "Intent to Test" notification by the permittee for review and approval by the Canton local air agency. The emission test shall not be performed any earlier than 90 days after any repairs to the internal cyclone of emissions unit P002.

c. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency for all emission tests. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

d. Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

e. In addition to collecting data records required by the required USEPA standard test methods in 40 CFR Part 60, Appendix A, the following operating parameter data, at a minimum, shall also be recorded during each stack test:

i. FCC fresh gas oil feed, in barrels per day;
ii. feed API and density, in pounds per gallon;
iii. sulfur content of the fresh feed, in percent;

iv. air rate to the FCC regenerator, in standard cubic feet per minute;
v. FCC reactor temperature, in degrees Fahrenheit;
vi. catalyst circulation rate, in tons per hour and calculations;
vii. maximum cold catalyst addition rate, in tons per hour; and
viii. SRC addition rate, in lbs of SRC/day.

f. A comprehensive written report on the results of any emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. In addition to the information identified in the General Terms and Conditions, the report shall also include the data recorded as required by section A.V.2.f.

g. The permittee shall submit continuous opacity, oxygen, and temperature monitoring data generated during the period beginning 3 weeks prior to the test date through 3 weeks after each test date.

VI. Miscellaneous Requirements

1. On _____, Marathon Ashland Petroleum Co., LLC (MAP) entered into a Consent Agreement with the State of Ohio (Case Number _____). In accordance with Article V (Injunctive Relief) of the Consent Agreement, MAP shall complete installation and begin and maintain operation of an electrostatic precipitator (ESP) for emissions unit P002 by no later than December 31, 2005, to ensure ongoing compliance with OAC rule 3745-17-11. MAP shall periodically and in good faith review its efforts to install the ESP and shall expedite installation of the ESP, if MAP determines that it is feasible to do so.

B. An emission limitation of 30 pounds of OC/hr was established as part of a settlement agreement between Ashland Oil, Inc. and the Director of Ohio EPA (EBR No. 891379) dated December 4, 1992. According to the document, the emission limitation was established because of a dispute regarding the applicability of OAC rule 3745-21-07(G)(2). It was agreed that the limit would remain in effect until a different limit or control requirement was established by law. Pursuant to OAC rule 3745-21-09(VV), after March 31, 1993, control requirements for the FCC regenerator were established requiring the regenerator to operate in a manner that provided an OC removal efficiency in excess of 85%.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a Fluidized Catalytic Cracking (FCC) unit having an average processing capacity of 23,000 barrels per day of fresh feed. This emissions unit is not subject to the requirements of 40 CFR Part 60, Subpart J, but is subject to the requirements of a Consent Decree between the United States of America and Ashland Oil Inc. See section A.VI.1, "Miscellaneous Requirements", for more details.	OAC rule 3745-18-82(E)(5)	See section A.I.2.a.

2. Additional Terms and Conditions

2.a The emission limitation found in 40 CFR Part 52.1881(b)(27)(ix) is the same as the emission limitation found in OAC rule 3745-18-82(E)(5).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Emissions unit P003 is the north area flare used to control emissions resulting from the emergency relief or malfunction of select emissions units situated in the north end of the MAP facility. The flare is equipped with steam-assisted capability.	40 CFR Part 63, Subpart CC (Refinery MACT)	See section A.I.2.a.
	40 CFR Part 60.18	See section A.I.2.b.
	OAC rule 3745-21-07(J)(3)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a In accordance with 40 CFR Part 63, Subpart CC, the permittee shall employ a flare to control emissions of organic hazardous air pollutants resulting from malfunctions and pressure relief episodes.

2.b This emissions unit shall be designed for and operated with no visible emissions except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

2.c The requirements specified in OAC rule 3745-21-07(J)(3) are less stringent than the requirements specified in 40 CFR Part 60.18.

II. Operational Restrictions

1. The flare shall be operated at all times when emissions are being vented to it.
2. The flare shall be operated with a flame present at all times.
3. Only gases with a net heating value of 11.2 MJ/scm (300 Btu/scf) or greater shall be burned in this emissions unit. Net heating value shall be calculated as specified in 40 CFR Part 63.18(f)(3).
   It shall be operated with an exit velocity less than 18.3 m/sec (60 ft./sec.) except as specified in sections A.II.4 and A.II.5.
4. If the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1000 Btu/scf), the permittee may operate the flare at an exit velocity equal to or greater than 18.3 m/sec (60 ft./sec), but less than 122 m/sec (400 ft./sec).
5. Steam-assisted flares may be operated with an exit velocity less than the maximum permitted velocity, but not greater than 122 m/sec (400 ft./sec.). The maximum permitted velocity shall be determined in accordance with 40 CFR Part 63.18(f)(5).

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the following information for each occurrence of a pressure relief that results in visible emissions:
   1. the date, time and duration of the pressure relief;
   2. the flare involved;
   3. the process unit(s) associated with the pressure relief;
   4. the cause of the pressure relief;
   5. the operating condition of the flare and the flame;
   6. the calculated net heating value of the gas being combusted;
   7. whether the flare is steam-assisted, air-assisted, or non-assisted and its operating condition;
   8. the calculated exit and maximum permitted velocity of the gas being combusted; and
   i. an explanation of why the pressure relief resulted in visible emissions.
2. The permittee shall properly operate and maintain a device to continuously monitor the pilot flame when the emissions unit is in operation. The monitoring device and any recorder shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.
   The permittee shall record the following information each day:
   a. all periods during which there was no pilot flame; and
   b. the downtime for the flare, monitoring equipment, and the associated emissions unit.
3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit including the flare. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
   a. the location and color of the emissions;
   b. whether the emissions are representative of normal operations;
   c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
   d. the total duration of any visible emission incident; and
   e. any corrective actions taken to eliminate the visible emissions.
   At any time the permittee observes visible emissions from the flare, the permittee shall monitor the visible emissions for a minimum period of 30 minutes in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 22 and record the results in an operations log.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods during which the pilot flame was not functioning properly. The reports shall include the date, time, and duration of each such period.
2. The permittee shall submit quarterly reports which include all visible emission readings conducted pursuant to the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 22 as a result of the presence of visible emissions from the flare. 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.

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:
   a. Emission Limitation:

no visible emissions except for periods not to exceed a total of 5 minutes during any 2 consecutive hours

Applicable Compliance Method:
If required, compliance shall be demonstrated based upon the procedures specified in 40 CFR Part 60, Appendix A, Method 22.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Emissions unit P004 is the south area flare used to control emissions resulting from the emergency relief or malfunction of select emissions units situated in the south end of the MAP facility. The flare is equipped with steam-assisted capability.	40 CFR Part 63, Subpart CC (Refinery MACT)	See section A.I.2.a.
	40 CFR Part 60.18	See section A.I.2.b.
	OAC rule 3745-21-07(J)(3)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a In accordance with 40 CFR Part 63, Subpart CC, the permittee shall employ a flare to control emissions of organic hazardous air pollutants resulting from malfunctions and pressure relief episodes.

2.b This emissions unit shall be designed for and operated with no visible emissions except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

2.c The requirements specified in OAC rule 3745-21-07(J)(3) are less stringent than the requirements specified in 40 CFR Part 60.18.

II. Operational Restrictions

1. The flare shall be operated at all times when emissions are being vented to it.
2. The flare shall be operated with a flame present at all times.
3. Only gases with a net heating value of 11.2 MJ/scm (300 Btu/scf) or greater shall be burned in this emissions unit. Net heating value shall be calculated as specified in 40 CFR Part 63.18(f)(3).
   It shall be operated with an exit velocity less than 18.3 m/sec (60 ft./sec.) except as specified in sections A.II.4 and A.II.5.
4. If the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1000 Btu/scf), the permittee may operate the flare at an exit velocity equal to or greater than 18.3 m/sec (60 ft./sec), but less than 122 m/sec (400 ft./sec).

5. Steam-assisted flares may be operated with an exit velocity less than the maximum permitted velocity, but not greater than 122 m/sec (400 ft./sec.). The maximum permitted velocity shall be determined in accordance with 40 CFR Part 63.18(f)(5).

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the following information for each occurrence of a pressure relief that results in visible emissions:

    1. the date, time and duration of the pressure relief;
    2. the flare involved;
    3. the process unit(s) associated with the pressure relief;
    4. the cause of the pressure relief;
    5. the operating condition of the flare and the flame;
    6. the calculated net heating value of the gas being combusted;
    7. whether the flare is steam-assisted, air-assisted, or non-assisted and its operating condition;
    8. the calculated exit and maximum permitted velocity of the gas being combusted; and
    i. an explanation of why the pressure relief resulted in visible emissions.

2. The permittee shall properly operate and maintain a device to continuously monitor the pilot flame when the emissions unit is in operation. The monitoring device and any recorder shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.

    The permittee shall record the following information each day:

    a. all periods during which there was no pilot flame; and
    b. the downtime for the flare, monitoring equipment, and the associated emissions unit.

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit including the flare. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

    a. the location and color of the emissions;
    b. whether the emissions are representative of normal operations;
    c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    d. the total duration of any visible emission incident; and
    e. any corrective actions taken to eliminate the visible emissions.

    At any time the permittee observes visible emissions from the flare, the permittee shall monitor the visible emissions for a minimum period of 30 minutes in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 22 and record the results in an operations log.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods during which the pilot flame was not functioning properly. The reports shall include the date, time, and duration of each such period.

2. The permittee shall submit quarterly reports which include all visible emission readings conducted pursuant to the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 22 as a result of the presence of visible emissions from the flare. 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.

V. Testing Requirements

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

   a. Emission Limitation:
   no visible emissions except for periods not to exceed a total of 5 minutes during any 2 consecutive hours
   Applicable Compliance Method:
   If required, compliance shall be demonstrated based upon the procedures specified in 40 CFR Part 60, Appendix A, Method 22.

VI. Miscellaneous Requirements

1. This emissions unit is a "new source," as defined in OAC rule 3745-31-01, that has not obtained a permit to install in accordance with OAC rule 3745-31-02. The permittee installed this emissions unit in 1986 without first applying for and obtaining a permit to install (PTI), in violation of OAC rule 3745-31-02. As the initial step to allow this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application within 60 days after issuance of this permit.

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

2. **Additional Terms and Conditions**

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is an asphalt oxidizer with a thermal oxidizer and is designated as emissions unit P007. The asphalt oxidizer process involves blowing air into vacuum bottoms material which oxidizes this material, thereby creating oxidized asphalt. Off gases are burned in the thermal oxidizer which utilizes refinery fuel gas as fuel.	40 CFR Part 63, Subpart CC (Refinery MACT)	See sections A.I.2.a and A.I.2.b.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-21-09(VV)	See section A.I.2.c.
	OAC rule 3745-21-09(T)	See section A.I.2.d.

2. Additional Terms and Conditions

2.a The permittee shall comply with the monitoring, record keeping, reporting, and testing requirements of 40 CFR Part 63.643 (the miscellaneous process vent provisions of the refinery MACT), as specified in Part II (Facility Section) of this permit.

2.b The permittee shall comply with the monitoring, record keeping, reporting, and testing requirements of 40 CFR Part 63.648 (the equipment leaks provisions of the refinery MACT), as specified in Part II (Facility Section) of this permit.

2.c All of the VOC emissions from this emissions unit shall be vented to a thermal oxidizer that will provide an overall control efficiency for VOC that is equal to or greater than 95%.

2.d The equipment leak requirements specified in OAC rule 3745-21-09(T) are less stringent than the equipment leak requirements specified in 40 CFR Part 63, Subpart CC.

II. Operational Restrictions

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

2. The average combustion temperature within the thermal oxidizer, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

2. For each day during which the permittee burns a fuel other than refinery fuel gas or natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

3. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal oxidizer when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
The permittee shall collect and record the following information for each day:
a. all 3-hour blocks of time during which the average combustion temperature within the thermal oxidizer, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than refinery fuel gas or natural gas is burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the City of Canton health Department, Division of Air Pollution Control (CCHD, DAPC) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal oxidizer does not comply with the temperature limitation specified above.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
a. Emission Limitation:
20% opacity as a 6-minute average
Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the procedures specified in 40 CFR Part 60, Appendix A, Method 9 and the methods and procedures specified in OAC rule 3745-17-03(B)(1).

b. Emission Limitation:
95% control efficiency for VOC emissions
Applicable Compliance Method:
Compliance with the control efficiency requirement shall be demonstrated based upon the emission testing procedures specified in section A.V.2

2. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
   a. The emission testing shall be conducted within 9 months after issuance of this permit and within 6 months prior to permit expiration.
   b. The emissions testing shall be conducted to demonstrate compliance with the control efficiency limitation for VOC specified in section A.I.2.c.
   c. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in 40 CFR Part 60, Appendix A, Method 25. Alternative USEPA test methods may be used with prior approval from the Ohio EPA.
   d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the CCHD, DAPC.
   e. The temperature of the exhaust gases from the thermal oxidizer shall be continuously monitored and recorded during each test run.

   Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CCHD, DAPC. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the CCHD, DAPC's refusal to accept the results of the emission test.

   Personnel from the CCHD, DAPC shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

   A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the CCHD, DAPC within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the CCHD, DAPC.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a vacuum distillation tower (VDT) used for the separation of the lighter, more volatile, vapor fraction of crude oil from the heavier fraction. The VDT is maintained at a vacuum while being fed preheated crude oil. Vapors extracted from the tower are compressed and injected into the refinery fuel gas system. During periods when the compressor is non-functional, the vapor stream is fed to the south flare (P004).	OAC rule 3745-21-09(M)(1)	See section A.I.2.a.
	OAC rule 3745-21-07(J)(3)	See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall compress and route all off-gas from the VDT system to the facility's fuel gas system in order to scrub hydrogen sulfide from the gas so that it may be used as a fuel for facility heaters and boilers.

2.b During any periods when routing of VDT off-gas to the fuel gas system is not possible due to an equipment breakdown within the off-gas transfer system, the permittee shall route all off-gas to the south flare (P004).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct leak detection inspections, maintain records, and take necessary corrective actions as part of the company's Leak Detection and Repair program as specified in Part II of these terms and conditions for the pressurized equipment side of this emissions unit.
2. The permittee shall maintain records of each period when the off-gas from the VDT system is not being routed to the refinery fuel gas system or the south flare (P004). The permittee shall maintain the

following records when the VDT off-gas is not being routed to the refinery fuel gas system or the south flare (P004):

1. the period of time the VDT off-gases are not being routed to the refinery fuel gas system or the south flare (P004);
2. the location where the VDT off-gases are being routed if other than the refinery fuel gas system or the south flare (P004); and
3. an estimate of the organic compound emission rate and organic compound content, in ppm, of VDT off-gases being routed to any other location other than the refinery fuel gas system or the south flare (P004).

IV. Reporting Requirements

a. The permittee shall submit quarterly deviation (excursion) reports that identify each period when the VDT off-gases are not routed to the refinery fuel gas system or the south flare (P004), the estimated organic compound emission rate for the VDT off-gases being routed to the other location, and the organic compound content, in ppm, of the VDT off-gases being routed to the other location.

V. Testing Requirements

None

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit consists of a Claus Sulfur Recovery Unit (SRU) in series with a SCOT unit, which is used to convert sulfur dioxide (SO2) to hydrogen sulfide (H2S) for further processing in the SRU. Acid gases from refinery processes are processed in the SRU to recover the sulfur. The SRU generates some SO2 which is treated in the same SCOT unit. The SCOT unit converts the SO2 from the SRU into H2S which is recycled back to the SRU. Both SRU's that are part of emissions units P011 and P016 discharge to one SCOT unit which, in turn, vents to a thermal oxidizer for conversion of the residual H2S to SO2 prior to discharge into the ambient air. The thermal oxidizer is rated at 21 mmBtu/hr and burns only natural gas for fuel.	40 CFR Part 60, Subpart J	250 ppm of SO2 as a rolling, 12-hour average
	OAC rule 3745-31-05(A)(3) (PTI 15-0649)	8.66 lbs/hr of SO2 (when only P011 or P016 is in operation) 21.1 lbs/hr of SO2 (when both P011 and P016 are in operation) 37.9 tpy of SO2 The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart J.
	OAC rule 3745-18-06(H)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**

2.a The permittee shall also comply with all applicable equipment leak terms and conditions found in the Part II - Facility Specific Terms and Conditions of this permit

II. Operational Restrictions

b. The permittee shall operate and maintain a flare system, in accordance with 40 CFR Part 63.11(b), for use during emergency or upset conditions experienced during the operation of the SRU.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously monitor and record SO2 and O2 emissions from emissions units P011 and P016. The permittee shall operate and maintain the existing monitoring and recording equipment to demonstrate compliance with the applicable standards. Monitoring data of SO2 emissions shall be expressed on a dry, oxygen-free basis. The continuous monitoring and recording equipment shall be operated and maintained in accordance with the requirements specified in 40 CFR Part 60.13.
2. The permittee shall maintain a statement of certification of the existing continuous SO2 and O2 monitoring systems on site. The certification 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 2. Proof of certification shall be made available to the City of Canton Health Department, Division of Air Pollution Control(Canton LAA) upon request. The span values for this monitor are 500 ppm of SO2 and 10 percent O2. Methods 6 and 3 shall be used for conducting the relative accuracy evaluations.
3. The permittee shall maintain records of all data obtained by the continuous SO2 and O2 monitoring systems including, but not limited to, parts per million SO2 and O2 on an instantaneous (one minute) basis, emissions of SO2 in units of the applicable standards in the appropriate averaging period (i.e., in ppm as a rolling, 12-hour average and in lbs/hr), results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments. The continuous monitoring and recording equipment shall be in continuous operation except for system breakdowns, repairs, calibration checks, and zero and span adjustments.
4. The permittee shall operate and maintain, in accordance with manufacturer's recommendations, flow measuring devices to quantify the emissions routed from the SRU to the flare, emissions unit P003. Data collection shall commence with the activation of the relief valve and continue until the release has ceased. The type and specifications of flow measuring devices shall be subject to approval by the Canton LAA upon request.
5. The permittee shall operate and maintain an H2S monitor and alarm system installed on the SRU vent. The alarm shall notify plant personnel that H2S is being vented to the flare. When an H2S venting event occurs, plant personnel shall notify the shift supervisor. Shift supervisors shall take immediate action to eliminate the venting of H2S. The type and specifications of H2S monitoring and alarm systems shall be subject to approval by the Canton LAA upon request and shall be operated and maintained in accordance with the manufacturer's recommendations.
6. The permittee shall maintain daily records of the hours during which emissions unit P011 and P016 operate simultaneously and the total number of operating hours for the SRU system.

IV. Reporting Requirements

1. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the Canton local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of SO2 values in excess of the applicable limits (250 ppm, 8.66 lbs/hr, and 21.1 lbs/hr). These reports shall also contain the total SO2 emissions for the calendar quarter (in tons). If there are no excess emissions during the calendar quarter, the permittee shall submit a

statement to that effect. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

2. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Canton local air agency documenting any continuous SO2 monitoring system downtime while the emissions unit was on line (date, time, duration, and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit's 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 on line shall also be included in the quarterly report.
3. Within 180 days of the effective date of this permit, the permittee shall develop or have developed a written quality assurance/quality control plan for the continuous SO2 monitoring system designed to ensure continuous valid and representative readings of SO2. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous SO2 monitoring system must be kept on site and available for inspection during regular office hours.
4. The permittee shall notify the Canton local air agency as soon as possible of any H2S venting to the flare from this emissions unit during normal business hours. Hydrogen sulfide venting at all other times shall be reported to the Canton local air agency at the first opportunity during normal business hours. If the venting of H2S poses a health risk, the shift supervisor on duty shall report the venting to the Ohio EPA emergency response division.

5. The permittee shall report any flow measurement data accumulated during the quarter from the flow measuring device used to quantify emissions routed from the SRU to the north flare (P003).

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
   a. Emission Limitation:
      250 ppmv of SO2 as a rolling, 12-hour average
      8.66 lbs/hr of SO2 (while operating only emissions unit P011 or P016)
      21.1 lbs/hr of SO2 (while operating emissions units P011 and P016 simultaneously)
      Applicable Compliance Method:
      Compliance shall be demonstrated based upon the use of the SO2 continuous emission monitoring system (CEMS) as specified in section A.III.
      If required, compliance shall also be demonstrated based upon the emission testing methods and procedures specified in section A.V.2.
   b. Emission Limitation:
      37.5 tpy of SO2
      Applicable Compliance Method:
      Compliance shall be demonstrated by summing the SO2 emission rate, in lbs/hr, from the CEMS for each hour of operation during the year, and then divide the total annual pounds of SO2 by 2000 lbs/ton.

2. The permittee shall conduct or have conducted emission testing for this emissions unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration.
   b. The emissions testing shall be conducted to demonstrate compliance with the allowable hourly mass emission rates for SO2.
   c. 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6 shall be employed to demonstrate compliance with the allowable mass emission rates for SO2. Alternative USEPA-approved test methods may be used with prior approval from the Canton local air agency.
   d. The tests shall be conducted while the emissions units are operating at or near their maximum capacities, unless otherwise specified or approved by the Canton local air agency.

   Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit's operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

   Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

   A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton local air agency.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit consists of a Claus Sulfur Recovery Unit (SRU) in series with a SCOT unit, which is used to convert sulfur dioxide (SO2) to hydrogen sulfide (H2S) for further processing in the SRU. Acid gases from refinery processes are processed in the SRU to recover the sulfur. The SRU generates some SO2 which is treated in the same SCOT unit. The SCOT unit converts the SO2 from the SRU into H2S which is recycled back to the SRU. Both SRU's that are part of emissions units P011 and P016 discharge to one SCOT unit which, in turn, vents to a thermal oxidizer for conversion of the residual H2S to SO2 prior to discharge into the ambient air. The thermal oxidizer is rated at 21 mmBtu/hr and burns only natural gas for fuel.	OAC rule 3745-18-82(E)	2.0 pounds of SO2 per 100 pounds of sulfur processed

2. Additional Terms and Conditions

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit consists of a Claus Sulfur Recovery Unit (SRU) in series with a SCOT unit, which is used to convert sulfur dioxide (SO2) to hydrogen sulfide (H2S) for further processing in the SRU. Acid gases from refinery processes are processed in the SRU to recover the sulfur. The SRU generates some SO2 which is treated in the same SCOT unit. The SCOT unit converts the SO2 from the SRU into H2S which is recycled back to the SRU. Both SRU's that are part of emissions units P011 and P016 discharge to one SCOT unit which, in turn, vents to a thermal oxidizer for conversion of the residual H2S to SO2 prior to discharge into the ambient air. The thermal oxidizer is rated at 21 mmBtu/hr and burns only natural gas for fuel.	40 CFR Part 60, Subpart J	250 ppm of SO2 as a rolling, 12-hour average
	OAC rule 3745-31-05(A)(3) (PTI 15-0649)	8.66 lbs/hr of SO2 (when only P011 or P016 is in operation) 21.1 lbs/hr of SO2 (when both P011 and P016 are in operation) 37.9 tpy of SO2 The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart J.
	OAC rule 3745-18-06(H)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**

2.a The permittee shall also comply with all applicable equipment leak terms and conditions found in the Part II - Facility Specific Terms and Conditions of this permit.

II. Operational Restrictions

a. The permittee shall operate and maintain a flare system, in accordance with 40 CFR Part 63.11(b), for use during emergency or upset conditions experienced during the operation of the SRU.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously monitor and record SO2 and O2 emissions from emissions units P011 and P016. The permittee shall operate and maintain the existing monitoring and recording equipment to demonstrate compliance with the applicable standards. Monitoring data of SO2 emissions shall be expressed on a dry, oxygen-free basis. The continuous monitoring and recording equipment shall be operated and maintained in accordance with the requirements specified in 40 CFR Part 60.13.

2. The permittee shall maintain a statement of certification of the existing continuous SO2 and O2 monitoring systems on site. The certification 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 2. Proof of certification shall be made available to the City of Canton Health Department, Division of Air Pollution Control(Canton LAA) upon request. The span values for this monitor are 500 ppm of SO2 and 10 percent O2. Methods 6 and 3 shall be used for conducting the relative accuracy evaluations.

3. The permittee shall maintain records of all data obtained by the continuous SO2 and O2 monitoring systems including, but not limited to, parts per million SO2 and O2 on an instantaneous (one minute) basis, emissions of SO2 in units of the applicable standards in the appropriate averaging period (i.e., in ppm as a rolling, 12-hour average and in lbs/hr), results of daily zero/span calibration checks, and the magnitudes of manual calibration adjustments. The continuous monitoring and recording equipment shall be in continuous operation except for system breakdowns, repairs, calibration checks, and zero and span adjustments.

4. The permittee shall operate and maintain, in accordance with manufacturer's recommendations, flow measuring devices to quantify the emissions routed from the SRU to the flare, emissions unit P003. Data collection shall commence with the activation of the relief valve and continue until the release has ceased. The type and specifications of flow measuring devices shall be subject to approval by the Canton LAA upon request.

5. The permittee shall operate and maintain an H2S monitor and alarm system installed on the SRU vent. The alarm shall notify plant personnel that H2S is being vented to the flare. When an H2S venting event occurs, plant personnel shall notify the shift supervisor. Shift supervisors shall take immediate action to eliminate the venting of H2S. The type and specifications of H2S monitoring and alarm systems shall be

subject to approval by the Canton LAA upon request and shall be operated and maintained in accordance with the manufacturer's recommendations.

6. The permittee shall maintain daily records of the hours during which emissions unit P011 and P016 operate simultaneously and the total number of operating hours for the SRU system.

IV. Reporting Requirements

1. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the Canton local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of SO2 values in excess of the applicable limits (250 ppm, 8.66 lbs/hr, and 21.1 lbs/hr). These reports shall also contain the total SO2 emissions for the calendar quarter (in tons). If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

2. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Canton local air agency documenting any continuous SO2 monitoring system downtime while the emissions unit was on line (date, time, duration, and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit's 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 on line shall also be included in the quarterly report.

3. Within 180 days of the effective date of this permit, the permittee shall develop or have developed a written quality assurance/quality control plan for the continuous SO2 monitoring system designed to ensure continuous valid and representative readings of SO2. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous SO2 monitoring system must be kept on site and available for inspection during regular office hours.

4. The permittee shall notify the Canton local air agency as soon as possible of any H2S venting to the flare from this emissions unit during normal business hours. Hydrogen sulfide venting at all other times shall be reported to the Canton local air agency at the first opportunity during normal business hours. If the venting of H2S poses a health risk, the shift supervisor on duty shall report the venting to the Ohio EPA emergency response division.

5. The permittee shall report any flow measurement data accumulated during the quarter from the flow measuring device used to quantify emissions routed from the SRU to the north flare (P003).

V. Testing Requirements

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

   a. Emission Limitation:

      250 ppmv of SO2 as a rolling, 12-hour average
      8.66 lbs/hr of SO2 (while operating only emissions unit P011 or P016)
      21.1 lbs/hr of SO2 (while operating emissions units P011 and P016 simultaneously)

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the use of the SO2 continuous emission monitoring system (CEMS) as specified in section A.III.

      If required, compliance shall also be demonstrated based upon the emission testing methods and procedures specified in section A.V.2.

   b. Emission Limitation:

      37.5 tpy of SO2

      Applicable Compliance Method:

      Compliance shall be demonstrated by summing the SO2 emission rate, in lbs/hr, from the CEMS for each hour of operation during the year, and then divide the total annual pounds of SO2 by 2000 lbs/ton.

2. The permittee shall conduct or have conducted emission testing for this emissions unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration.

   b. The emissions testing shall be conducted to demonstrate compliance with the allowable hourly mass emission rates for SO2.

   c. 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6 shall be employed to demonstrate compliance with the allowable mass emission rates for SO2. Alternative USEPA-approved test methods may be used with prior approval from the Canton local air agency.

d. The tests shall be conducted while the emissions units are operating at or near their maximum capacities, unless otherwise specified or approved by the Canton local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit's operating parameters, the time(s) and dates of the tests and the persons who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Canton local air agency's refusal to accept the results of the emission test.

Personnel from the Canton local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton local air agency.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit consists of a Claus Sulfur Recovery Unit (SRU) in series with a SCOT unit, which is used to convert sulfur dioxide (SO2) to hydrogen sulfide (H2S) for further processing in the SRU. Acid gases from refinery processes are processed in the SRU to recover the sulfur. The SRU generates some SO2 which is treated in the same SCOT unit. The SCOT unit converts the SO2 from the SRU into H2S which is recycled back to the SRU. Both SRU's that are part of emissions units P011 and P016 discharge to one SCOT unit which, in turn, vents to a thermal oxidizer for conversion of the residual H2S to SO2 prior to discharge into the ambient air. The thermal oxidizer is rated at 21 mmBtu/hr and burns only natural gas for fuel.	OAC rule 3745-18-82(E)	2.0 pounds of SO2 per 100 pounds of sulfur processed

2. Additional Terms and Conditions

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a catalyst separation system. Used catalyst from the FCC unit (emissions unit P002) is processed through this emissions unit to separate the spent portion of the catalyst from that portion which is recycled back to P002. Spent catalyst is separated using a magnetic separation technique. This emissions unit is equipped with 3 fabric filter baghouses for particulate control.	OAC rule 3745-31-05(A)(3) (PTI 15-1152)	0.020 grain of particulate emissions per dry standard cubic foot of exhaust gases (gr/dscf) 0.205 lb/hr of particulate emissions 0.90 tpy of particulate emissions Visible particulate emissions from this emissions unit shall not exceed 5% opacity as a 3-minute average.
	OAC rule 3745-17-11(B)	See section A.I.2.a.
	OAC rule 3745-17-07(A)	See section A.I.2.a.

2. Additional Terms and Conditions

2.a The emission limitation(s) specified by this rule is (are) less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

II. Operational Restrictions

a. All of the particulate emissions from this emissions unit shall be vented to the three baghouses.

2. The pressure drop across each baghouse shall be maintained within the range of 3 to 6 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals(s). The permittee shall record the pressure drop across each baghouse on a daily basis.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

   a. the color of the emissions;
   b. whether the emissions are representative of normal operations;
   c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
   d. the total duration of any visible emission incident; and
   e. any corrective actions taken to eliminate the visible emissions.

3. The permittee shall maintain daily records of the number of hours of operation for this emission unit.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any periods of time during which the pressure drop across each baghouse did not fall within the allowable pressure drop range specified in section A.II.2.

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

   a. Emission Limitations:

      0.020 gr/dscf
      0.205 lb/hr of particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

b. Emission Limitation:

Visible particulate emissions from this emissions unit shall not exceed 5% opacity as a 3-minute average.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

c. Emission Limitation:

0.9 tpy of particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the allowable hourly emission limitation, in lbs/hr, by the actual annual hours of operation, and then dividing by 2000 lbs/ton.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 2,100,000-gallon crude oil storage vessel identified as tank number 40 (emissions unit T023). It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63.641, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 2,100,000-gallon storage tank for the storage of petroleum liquids. The tank is identified as tank number 45 (emissions unit T024). It has an internal floating roof with a metallic shoe primary seal. The emissions unit currently operates as a Group 1 storage vessel under the refinery MACT (Subpart CC).	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(L)	The requirements of this applicable rule are less stringent than the requirements specified in 40 CFR Part 63, Subpart CC.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof and a metallic shoe primary seal to control VOC emissions.
The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

a. The internal floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports after the vessel has been completely emptied and degassed or when the vessel is completely emptied before being subsequently refilled.

2. The filling, refilling, or emptying of the vessel shall be continuous and shall be accomplished as soon as practical when the floating roof is resting on the leg supports.

3. The internal floating roof shall be equipped with a metallic shoe seal.

4. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid. The cover or lid shall be equipped with a gasket. All tank covers and lids shall remain closed except when the cover or lid must be open for access. Covers on each access hatch and each gauge float well shall be bolted or fastened so as to be air-tight when they are closed.

5. Each penetration of the internal floating roof for the purposes of sampling shall be a sample well. Each sample well shall have a slit fabric cover that covers at least 90% of the opening.

6. Each penetration of the internal floating roof that allows for passage of a ladder or the support column for the fixed roof shall have a gasketed sliding cover.

7. Rim space vents are to be set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Each rim space vent shall be gasketed.

8. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Each automatic bleeder vent shall be gasketed.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall conduct the following inspections on this emissions unit:

   a. Visually inspect the internal floating roof and primary seal through manholes and roof hatches at least once every 12 months following the compliance date or once every 12 months after the initial fill (i.e., annual inspection). The permittee shall repair any items found as a result of the inspections required in section A.III.2 below or empty and remove the storage vessel from service within 45 calendar days.

   b. Visually inspect the internal floating roof and seal each time the storage vessel is emptied and degassed and at least once every 10 years after the compliance date (i.e., internal inspection). If during an inspection, the permittee finds any of the conditions indicated in section A.III.2 below, the condition shall be corrected prior to refilling the storage vessel.

2. During the visual inspections, the permittee shall inspect, at a minimum, for the following control equipment failures :

   a. whether the internal roof is resting on the liquid surface inside the tank and is not resting on the leg supports;

   b. if there is liquid on the floating roof or if the internal floating roof has defects;

c. if the seal is detached or has holes or tears in the seal fabric; and

d. if there are visible gaps between the seal and the wall of the storage vessel.

3. The permittee shall retain records of each inspection performed on this emissions unit. These records shall include the date of the inspection, identification of the storage vessel, description of each failure, the nature and date of repair or date the vessel was emptied if the failure is to be repaired in 45 calendar days from discovery. If a failure cannot be repaired and if the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 calendar days each. The permittee shall document the decision to utilize an extension. This documentation shall include a description of the failure, that alternative storage is unavailable and a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. This documentation shall be kept in a readily accessible location.

4. All records shall be retained for at least 5 years, unless otherwise indicated within this section, in such a manner that they can be readily accessed within 24 hrs.

5. The permittee shall maintain records of the type of petroleum liquid stored in the vessel, the maximum true vapor pressure of the liquid stored in the vessel, the vessel's group determination, the vessel's dimensions, and an analysis showing the capacity of the vessel. This record shall be kept as long as the storage vessel retains Group 1 status and is in operation.

IV. Reporting Requirements

1. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition A.1:

a. <u>Periodic Reports</u>

The permittee shall submit a periodic report when the emissions unit experiences a failure as indicated in section A.III.2 of these terms and conditions. The reports shall contain the results of each inspection in which a failure was detected and repaired within 45 calendar days and the date of the inspection, identification of the storage vessel, the description of the failure, and the nature and date of repair or the date the vessel was emptied. If an extension is utilized as discussed in section A.III.3 of these terms and conditions, the permittee shall, in the next periodic report, identify the vessel, include the documentation identified above, and indicate the date the storage vessel was emptied and the nature of and date of the repair. These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. <u>Internal Inspection Notification</u>

The permittee shall notify the Canton local air agency at least 30 calendar days prior to the refilling of this storage vessel or a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance then the permittee shall notify the Canton local air agency at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing provided that it is received at least 7 days prior to the refilling.

2. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 1 storage vessel to a Group 2 storage vessel. All deviation (excursion) reports shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

3. All reports and submittals shall be sent to the Administrator, City of Canton Health Department, Division of Air Pollution Control, 420 Market Ave., N, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

   a. Control Measures:

   The permittee shall employ an internal floating roof and a metallic shoe primary seal when operating this emissions unit as a Group 1 storage vessel. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

   Applicable Compliance Method:

   Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 2,300,000-gallon storage tank for the storage of petroleum liquids. The tank is identified as tank number 50 (emissions unit T028). It has an internal floating roof with a metallic shoe primary seal. The emissions unit currently operates as a Group 1 storage vessel under the refinery MACT (Subpart CC).	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(L)	The requirements of this applicable rule are less stringent than the requirements specified in 40 CFR Part 63, Subpart CC.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof and a metallic shoe primary seal to control VOC emissions.
The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

a. The internal floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports after the vessel has been completely emptied and degassed or when the vessel is completely emptied before being subsequently refilled.

2. The filling, refilling, or emptying of the vessel shall be continuous and shall be accomplished as soon as practical when the floating roof is resting on the leg supports.

3. The internal floating roof shall be equipped with a metallic shoe seal.

4. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid. The cover or lid shall be equipped with a gasket. All tank covers and lids shall remain closed except when the cover or lid must be open for access. Covers on each access hatch and each gauge float well shall be bolted or fastened so as to be air-tight when they are closed.

5. Each penetration of the internal floating roof for the purposes of sampling shall be a sample well. Each sample well shall have a slit fabric cover that covers at least 90% of the opening.

6. Each penetration of the internal floating roof that allows for passage of a ladder or the support column for the fixed roof shall have a gasketed sliding cover.

7. Rim space vents are to be set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Each rim space vent shall be gasketed.

8. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Each automatic bleeder vent shall be gasketed.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall conduct the following inspections on this emissions unit:

   a. Visually inspect the internal floating roof and primary seal through manholes and roof hatches at least once every 12 months following the compliance date or once every 12 months after the initial fill (i.e., annual inspection). The permittee shall repair any items found as a result of the inspections required in section A.III.2 below or empty and remove the storage vessel from service within 45 calendar days.

   b. Visually inspect the internal floating roof and seal each time the storage vessel is emptied and degassed and at least once every 10 years after the compliance date (i.e., internal inspection). If during an inspection, the permittee finds any of the conditions indicated in section A.III.2 below, the condition shall be corrected prior to refilling the storage vessel.

2. During the visual inspections, the permittee shall inspect, at a minimum, for the following control equipment failures :

   a. whether the internal roof is resting on the liquid surface inside the tank and is not resting on the leg supports;

   b. if there is liquid on the floating roof or if the internal floating roof has defects;

c. if the seal is detached or has holes or tears in the seal fabric; and

d. if there are visible gaps between the seal and the wall of the storage vessel.

3. The permittee shall retain records of each inspection performed on this emissions unit. These records shall include the date of the inspection, identification of the storage vessel, description of each failure, the nature and date of repair or date the vessel was emptied if the failure is to be repaired in 45 calendar days from discovery. If a failure cannot be repaired and if the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 calendar days each. The permittee shall document the decision to utilize an extension. This documentation shall include a description of the failure, that alternative storage is unavailable and a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. This documentation shall be kept in a readily accessible location.

4. All records shall be retained for at least 5 years, unless otherwise indicated within this section, in such a manner that they can be readily accessed within 24 hrs.

v. The permittee shall maintain records of the type of petroleum liquid stored in the vessel, the maximum true vapor pressure of the liquid stored in the vessel, the vessel's group determination, the vessel's dimensions, and an analysis showing the capacity of the vessel. This record shall be kept as long as the storage vessel retains Group 1 status and is in operation.

IV. Reporting Requirements

5. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition A.1:

a. <u>Periodic Reports</u>

The permittee shall submit a periodic report when the emissions unit experiences a failure as indicated in section A.III.2 of these terms and conditions. The reports shall contain the results of each inspection in which a failure was detected and repaired within 45 calendar days and the date of the inspection, identification of the storage vessel, the description of the failure, and the nature and date of repair or the date the vessel was emptied. If an extension is utilized as discussed in section A.III.3 of these terms and conditions, the permittee shall, in the next periodic report, identify the vessel, include the documentation identified above, and indicate the date the storage vessel was emptied and the nature of and date of the repair. These reports shall be submitted within 60 days after the end of the current 6 month reporting period. The first 6-month period shall begin on the date the notification of Compliance Status Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. <u>Internal Inspection Notification</u>

The permittee shall notify the Canton local air agency at least 30 calendar days prior to the refilling of this storage vessel or a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance then the permittee shall notify the Canton local air agency at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing provided that it is received at least 7 days prior to the refilling.

2. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 1 storage vessel to a Group 2 storage vessel. All deviation (excursion) reports shall be submitted to the Canton LAA at least thirty (30) days prior to such a change in the storage vessel's group designation.

3. All reports and submittals shall be sent to the Administrator, City of Canton Health Department, Division of Air Pollution Control, 420 Market Ave., N, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

   a. Control Measures:

   The permittee shall employ an internal floating roof and a metallic shoe primary seal when operating this emissions unit as a Group 1 storage vessel. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

   Applicable Compliance Method:

   Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 835,000-gallon storage tank for the storage of petroleum liquids. The tank is identified as tank number 56 (emissions unit T030). It has an internal floating roof with a metallic shoe primary seal. The emissions unit currently operates as a Group 1 storage vessel under the refinery MACT (Subpart CC).	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(L)	The requirements of this applicable rule are less stringent than the requirements specified in 40 CFR Part 63, Subpart CC.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof and a metallic shoe primary seal to control VOC emissions.
The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

a. The internal floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports after the vessel has been completely emptied and degassed or when the vessel is completely emptied before being subsequently refilled.

2. The filling, refilling, or emptying of the vessel shall be continuous and shall be accomplished as soon as practical when the floating roof is resting on the leg supports.

3. The internal floating roof shall be equipped with a metallic shoe seal.

4. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid. The cover or lid shall be equipped with a gasket. All tank covers and lids shall remain closed except when the cover or lid must be open for access. Covers on each access hatch and each gauge float well shall be bolted or fastened so as to be air-tight when they are closed.

5. Each penetration of the internal floating roof for the purposes of sampling shall be a sample well. Each sample well shall have a slit fabric cover that covers at least 90% of the opening.

6. Each penetration of the internal floating roof that allows for passage of a ladder or the support column for the fixed roof shall have a gasketed sliding cover.

7. Rim space vents are to be set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Each rim space vent shall be gasketed.

8. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Each automatic bleeder vent shall be gasketed.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall conduct the following inspections on this emissions unit:

   a. Visually inspect the internal floating roof and primary seal through manholes and roof hatches at least once every 12 months following the compliance date or once every 12 months after the initial fill (i.e., annual inspection). The permittee shall repair any items found as a result of the inspections required in section A.III.2 below or empty and remove the storage vessel from service within 45 calendar days.

   b. Visually inspect the internal floating roof and seal each time the storage vessel is emptied and degassed and at least once every 10 years after the compliance date (i.e., internal inspection). If during an inspection, the permittee finds any of the conditions indicated in section A.III.2 below, the condition shall be corrected prior to refilling the storage vessel.

2. During the visual inspections, the permittee shall inspect, at a minimum, for the following control equipment failures :

   a. whether the internal roof is resting on the liquid surface inside the tank and is not resting on the leg supports;

   b. if there is liquid on the floating roof or if the internal floating roof has defects;

c. if the seal is detached or has holes or tears in the seal fabric; and

d. if there are visible gaps between the seal and the wall of the storage vessel.

3. The permittee shall retain records of each inspection performed on this emissions unit. These records shall include the date of the inspection, identification of the storage vessel, description of each failure, the nature and date of repair or date the vessel was emptied if the failure is to be repaired in 45 calendar days from discovery. If a failure cannot be repaired and if the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 calendar days each. The permittee shall document the decision to utilize an extension. This documentation shall include a description of the failure, that alternative storage is unavailable and a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. This documentation shall be kept in a readily accessible location.

4. All records shall be retained for at least 5 years, unless otherwise indicated within this section, in such a manner that they can be readily accessed within 24 hrs.

5. The permittee shall maintain records of the type of petroleum liquid stored in the vessel, the maximum true vapor pressure of the liquid stored in the vessel, the vessel's group determination, the vessel's dimensions, and an analysis showing the capacity of the vessel. This record shall be kept as long as the storage vessel retains Group 1 status and is in operation.

IV. Reporting Requirements

1. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition A.1:

a. <u>Periodic Reports</u>

The permittee shall submit a periodic report when the emissions unit experiences a failure as indicated in section A.III.2 of these terms and conditions. The reports shall contain the results of each inspection in which a failure was detected and repaired within 45 calendar days and the date of the inspection, identification of the storage vessel, the description of the failure, and the nature and date of repair or the date the vessel was emptied. If an extension is utilized as discussed in section A.III.3 of these terms and conditions, the permittee shall, in the next periodic report, identify the vessel, include the documentation identified above, and indicate the date the storage vessel was emptied and the nature of and date of the repair. These reports shall be submitted within 60 days after the end of the current 6 month reporting period. The first 6-month period shall begin on the date the notification of Compliance Status Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. <u>Internal Inspection Notification</u>

The permittee shall notify the Canton local air agency at least 30 calendar days prior to the refilling of this storage vessel or a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance then the permittee shall notify the Canton local air agency at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing provided that it is received at least 7 days prior to the refilling.

2. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 1 storage vessel to a Group 2 storage vessel. All deviation (excursion) reports shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

3. All reports and submittals shall be sent to the Administrator, City of Canton Health Department, Division of Air Pollution Control, 420 Market Ave., N, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

   a. Control Measures:

   The permittee shall employ an internal floating roof and a metallic shoe primary seal when operating this emissions unit as a Group 1 storage vessel. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

   Applicable Compliance Method:

   Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 419,000-gallon Group 1 storage tank for the storage of petroleum liquids. The tank is identified as tank number 61 (emissions unit T033). It employs an internal floating roof with a vapor type primary seal and a wiper type secondary seal.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(L)	The requirements of this applicable rule are less stringent than the requirements specified in 40 CFR Part 63, Subpart CC.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof, a vapor type primary seal, and a wiper type secondary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

a. The internal floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports after the vessel has been completely emptied and degassed or when the vessel is completely emptied before being subsequently refilled.

2. The filling, refilling, or emptying of the vessel shall be continuous and shall be accomplished as soon as practical when the floating roof is resting on the leg supports.

3. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid. The cover or lid shall be equipped with a gasket. All tank covers and lids shall remain closed except

when the cover or lid must be open for access. Covers on each access hatch and each gauge float well shall be bolted or fastened so as to be air-tight when they are closed.

4. Each penetration of the internal floating roof for the purposes of sampling shall be a sample well. Each sample well shall have a slit fabric cover that covers at least 90% of the opening.

5. Each penetration of the internal floating roof that allows for passage of a ladder or the support column for the fixed roof shall have a gasketed sliding cover.

6. Rim space vents are set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Each rim space vent shall be gasketed.

7. Automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Each automatic bleeder vent shall be gasketed.

8. The seals of a dual seal system are mounted one above the other with the vapor-mounted seal being the lower seal. The combination of the two seals shall form a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. If the vapor mounted seal is installed as of December 31, 1992, the requirement that one of the seals specified in 40 CFR Parts 63.119(b)(3) thru 63.119(b)(3)iii be utilized does not apply until either the next time the vessel is emptied and degassed or no later than August 18, 2005, whichever comes first.

9. There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections and maintain records of those inspection for this emissions unit:

   a. Visually inspect the internal floating roof and primary seal through manholes and roof hatches at least once every 12 months following the compliance date or once every 12 months after the initial fill (ie, annual inspection). The permittee shall repair any items found as a result of the inspections required in section A.III.2 below or empty and remove the storage vessel from service within 45 calendar days.

   b. Visually inspect the internal floating roof and seal each time the storage vessel is emptied and degassed and at least once every 10 years after the compliance date (ie, internal inspection). If, during an inspection, the permittee finds any of the conditions indicated in section A.III.2 below, the condition shall be corrected prior to refilling the storage vessel.

2. During the visual inspections, the permittee shall inspect, at a minimum, for the following control equipment failures:

a. whether the internal roof is resting on the liquid surface inside the tank and is not resting on the leg supports;

b. if there is liquid on the floating roof or if the internal floating roof has defects;

c. if the seal is detached or has holes or tears in the seal fabric; and

d. if there are visible gaps between the seal and the wall of the storage vessel.

3. The permittee shall retain records of each inspection performed on this emissions unit . These records shall include the date of the inspection, identification of the storage vessel, description of each failure, the nature and date of repair or date the vessel was emptied if the failure is to be repaired in 45 calendar days from discovery. If a failure cannot be repaired and if the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 calendar days each. The permittee shall document the decision to utilize an extension. This documentation shall include a description of the failure, that alternative storage is unavailable and a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. This documentation shall be kept in a readily accessible location.

4. All records shall be retained for at least 5 years, unless otherwise indicated within this section, in such a manner that they can be readily accessed within 24 hrs.

5. The permittee shall maintain records of the type of petroleum liquid stored in the vessel, the maximum true vapor pressure of the liquid stored in the vessel, the vessel's group determination, the vessel's dimensions, and an analysis showing the capacity of the vessel. This record shall be kept as long as the storage vessel retains Group 1 status and is in operation.

IV. Reporting Requirements

2. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition A.1:

a. <u>Periodic Reports</u>

The permittee shall submit a periodic report when the emissions unit experiences a failure as indicated in section A.III.2 of these terms and conditions. The reports shall contain the results of each inspection in which a failure was detected and repaired within 45 calendar days and the date of the inspection, identification of the storage vessel, the description of the failure, and the nature and date of repair or the date the vessel was emptied. If an extension is utilized as discussed in section A.III.3 of these terms and conditions, the permittee shall, in the next periodic report, identify the vessel, include the documentation identified above, and indicate the date the storage vessel was emptied and the nature of and date of the repair. These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status Report is

required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton local air agency at least 30 calendar days prior to the refilling of this storage vessel or a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the Canton local air agency at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing provided that it is received at least 7 days prior to the refilling.

2. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 1 storage vessel to a Group 2 storage vessel. All deviation (excursion) reports shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

3. All reports and submittals shall be sent to the Administrator, City of Canton Health Department, Division of Air Pollution Control, 420 Market Ave., N, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

Control Measures:

The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof, a vapor type primary seal, and a wiper type secondary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 419,000-gallon storage tank for the storage of petroleum liquids. The tank is identified as tank number 62 (emissions unit T034). It has an internal floating roof with a metallic shoe primary seal. The emissions unit currently operates as a Group 1 storage vessel under the refinery MACT (Subpart CC).	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(L)	The requirements of this applicable rule are less stringent than the requirements specified in 40 CFR Part 63, Subpart CC.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof and a metallic shoe primary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

c. The internal floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports after the vessel has been completely emptied and degassed or when the vessel is completely emptied before being subsequently refilled.

2. The filling, refilling, or emptying of the vessel shall be continuous and shall be accomplished as soon as practical when the floating roof is resting on the leg supports.

3. The internal floating roof shall be equipped with a metallic shoe seal.

4. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid. The cover or lid shall be equipped with a gasket. All tank covers and lids shall remain closed except when the cover or lid must be open for access. Covers on each access hatch and each gauge float well shall be bolted or fastened so as to be air-tight when they are closed.

5. Each penetration of the internal floating roof for the purposes of sampling shall be a sample well. Each sample well shall have a slit fabric cover that covers at least 90% of the opening.

6. Each penetration of the internal floating roof that allows for passage of a ladder or the support column for the fixed roof shall have a gasketed sliding cover.

7. Rim space vents are to be set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Each rim space vent shall be gasketed.

8. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Each automatic bleeder vent shall be gasketed.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall conduct the following inspections on this emissions unit:

   a. Visually inspect the internal floating roof and primary seal through manholes and roof hatches at least once every 12 months following the compliance date or once every 12 months after the initial fill (i.e., annual inspection). The permittee shall repair any items found as a result of the inspections required in section A.III.2 below or empty and remove the storage vessel from service within 45 calendar days.

   b. Visually inspect the internal floating roof and seal each time the storage vessel is emptied and degassed and at least once every 10 years after the compliance date (i.e., internal inspection). If during an inspection, the permittee finds any of the conditions indicated in section A.III.2 below, the condition shall be corrected prior to refilling the storage vessel.

2. During the visual inspections, the permittee shall inspect, at a minimum, for the following control equipment failures :

   a. whether the internal roof is resting on the liquid surface inside the tank and is not resting on the leg supports;

   b. if there is liquid on the floating roof or if the internal floating roof has defects;

c. if the seal is detached or has holes or tears in the seal fabric; and

d. if there are visible gaps between the seal and the wall of the storage vessel.

3. The permittee shall retain records of each inspection performed on this emissions unit. These records shall include the date of the inspection, identification of the storage vessel, description of each failure, the nature and date of repair or date the vessel was emptied if the failure is to be repaired in 45 calendar days from discovery. If a failure cannot be repaired and if the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 calendar days each. The permittee shall document the decision to utilize an extension. This documentation shall include a description of the failure, that alternative storage is unavailable and a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. This documentation shall be kept in a readily accessible location.

4. All records shall be retained for at least 5 years, unless otherwise indicated within this section, in such a manner that they can be readily accessed within 24 hrs.

5. The permittee shall maintain records of the type of petroleum liquid stored in the vessel, the maximum true vapor pressure of the liquid stored in the vessel, the vessel's group determination, the vessel's dimensions, and an analysis showing the capacity of the vessel. This record shall be kept as long as the storage vessel retains Group 1 status and is in operation.

IV. Reporting Requirements

1. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition A.1:

a. <u>Periodic Reports</u>

The permittee shall submit a periodic report when the emissions unit experiences a failure as indicated in section A.III.2 of these terms and conditions. The reports shall contain the results of each inspection in which a failure was detected and repaired within 45 calendar days and the date of the inspection, identification of the storage vessel, the description of the failure, and the nature and date of repair or the date the vessel was emptied. If an extension is utilized as discussed in section A.III.3 of these terms and conditions, the permittee shall, in the next periodic report, identify the vessel, include the documentation identified above, and indicate the date the storage vessel was emptied and the nature of and date of the repair. These reports shall be submitted within 60 days after the end of the current 6 month reporting period. The first 6-month period shall begin on the date the notification of Compliance Status Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. <u>Internal Inspection Notification</u>

The permittee shall notify the Canton local air agency at least 30 calendar days prior to the refilling of this storage vessel or a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance then the permittee shall notify the Canton local air agency at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing provided that it is received at least 7 days prior to the refilling.

2. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 1 storage vessel to a Group 2 storage vessel. All deviation (excursion) reports shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

3. All reports and submittals shall be sent to the Administrator, City of Canton Health Department, Division of Air Pollution Control, 420 Market Ave., N, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

   a. Control Measures:

   The permittee shall employ an internal floating roof and a metallic shoe primary seal when operating this emissions unit as a Group 1 storage vessel. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

   Applicable Compliance Method:

   Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 835,000-gallon petroleum storage tank identified as tank number 65 (emissions unit T035). It has an external floating roof with a mechanical shoe primary seal and a rim mounted secondary seal. It is classified as a Group 1 storage vessel, pursuant to 40 CFR Part 63, Subpart CC.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(Z)	See section A.I.2.b.

2. Additional Terms and Conditions

2.a This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

2.b The requirements specified in OAC rule 3745-21-09(Z) are as stringent as the requirements specified in 40 CFR Part 63, Subpart CC.

2.c The permittee shall add the gap surface area of each gap location for the primary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the primary seal shall not exceed 212 square centimeters per meter of vessel diameter (10 square inches per foot of vessel diameter) and the width of any portion of any gap shall not exceed 3.81 centimeters (1.5 inches).

2.d The permittee shall add the gap surface area of each gap location for the secondary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between

the vessel wall and the secondary seal shall not exceed 21.1 square centimeters per meter of vessel diameter (1.0 square inch per foot of vessel diameter) and the width of any portion of any gap shall not exceed 1.27 centimeters (0.5 inch). The seal gap requirements may be exceeded during the measurement of primary seal gaps as indicated in section A.III.1.d below.

2.e There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

II. Operational Restrictions

a. The permittee shall equip this storage vessel with an external floating roof control device equipped with a mechanical shoe primary (lower) seal and a wiper type secondary (upper) seal. If the storage vessel is equipped with only a metallic shoe primary seal as of December 31, 1992, the requirement for a secondary seal does not apply until the next time the storage vessel is emptied or degassed or no later than August 18, 2005, whichever is earlier.

2. The permittee shall ensure that both the primary seal and the secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion, except during internal inspections conducted in accordance with section A.III of these terms and conditions.

3. The permittee shall ensure that the external floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports during the initial fill, after the vessel has been completely emptied and degassed, or when the vessel has been completely emptied before being subsequently refilled.

4. The permittee shall ensure that when the external floating roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as practical.

5. The permittee shall equip all openings in the external floating roof, except automatic bleeder vents, rim space vents, leg sleeves, stub drains, and slotted gauging/sampling wells with a cover, seal, or lid which will remain in the closed position at all times without any visible gaps, except when the opening is in use and a projection into the tank below the liquid surface.

6. The permittee shall ensure that rim space vents are set open only when the external floating roof is not floating and when the pressure beneath the rim seal exceeds the manufacturer's recommended setting.

7. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

8. Any emergency roof drain shall be equipped with a slotted membrane fabric cover or other device which covers at least ninety percent of the area of the opening.

9. Any stub drain shall be equipped with a projection into the tank below the liquid surface.

10. Any slotted gauging/sampling well is equipped with an object which floats on the liquid surface within the well, which closes off the liquid surface from the atmosphere, and which covers at least ninety percent of the area of the well opening. Each unslotted guide pole well shall have a gasketed sliding cover or a flexible fabric sleeve seal. Each one shall have a gasketed cap on the end of the pole which is closed at all times except when gauging the liquid level or taking liquid samples. Each slotted guide pole well shall ahve a gasketed sliding cover or a flexible fabric sleeve seal.

11. All rim space vents and automatic bleeder vents shall be gasketed.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall comply with section A.III.1 unless it is determined that it is unsafe to do so because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel. If compliance with section A.III.1 is deemed unsafe because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with section A.III.2 of these terms and conditions.

    a. The permittee shall perform measurements of gaps between the vessel wall and the primary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every 5 years thereafter.

    b. The permittee shall perform measurements of gaps between the vessel wall and the secondary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every year thereafter.

    c. If the maximum true vapor pressure of the total organic HAPs in the stored liquid falls below the values defining a Group 1 storage vessel as specified in 40 CFR 63.641 for a period of 1 year or more, the permittee shall perform measurements of gaps between the vessel wall and the primary and secondary seals within 90 calendar days of the vessel being refilled.

    d. The permittee shall determine gap widths and gap areas in the primary and secondary seals individually by the procedures described below:

        i. Seal gaps shall be measured at one or more external floating roof levels when the roof is not resting on the roof leg supports;

        ii. Seal gaps shall be measured around the entire circumference of the vessel in each place where a 0.32 centimeter (1/8 inch) diameter uniform probe passes freely (without forcing or binding against the seal) between the seal and the wall of the storage vessel. The circumferential distance of each such location shall also be measured.

e. The total surface area of each gap of this section shall be determined by using probes of various widths to measure accurately the actual distance from the vessel wall to the seal and multiplying each such width by its respective circumferential distance.

f. The permittee shall keep records describing the results of each seal gap measurement made in accordance with this permit. The records shall include the date of the measurement, the raw data obtained in the measurement, and calculations described within section A.III.1 of this permit.

2. If the external floating roof is deemed unsafe because it appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with one of the following:

   a. The permittee shall measure the seal gaps or inspect the storage vessel no later than 30 calendar days after the determination that the roof is unsafe.

   or

   b. The permittee shall empty and remove the storage vessel from service no later than 45 calendar days after determining that the roof is unsafe. If the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

3. The permittee shall repair conditions that do not meet requirements listed within this section of the permit no later than 45 calendar days after identification of such a condition. If during seal gap measurements or during inspections necessary to determine compliance with the terms and conditions of this permit, a failure is detected that cannot be repaired within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

4. The permittee shall visually inspect the external floating roof, the primary seal, secondary seal, and the fittings each time the vessel is emptied and degassed and, at least, annually. The permittee shall inspect for failures as defined at any time:

   a. the external floating roof has defects; or

   b. the primary or secondary seal has holes, tears, or other openings in the seal or seal fabric.

The permittee shall repair the failures described above, as necessary, so that none of the conditions of the failures exist prior to filling or refilling the storage vessel with organic HAP.

5. The permittee shall keep all documentation required by this permit, records showing the dimensions of the storage vessel, and an analysis showing the capacity of the storage vessel in a readily accessible location. The records showing vessel dimensions and an analysis of the vessel's capacity shall be kept as long as the storage vessel retains a Group 1 status and is still in operation.

6. The permittee shall maintain records of the dates and results of any inspections or measurements performed in accordance with OAC rule 3745-21-09(Z)(2)(a) to OAC rule 3745-21-09(Z)(2)(c) and the annual throughput of any petroleum liquid stored in the tank. These records shall be maintained for a period not less than 2 years.

7. The permittee shall maintain records of the types of petroleum liquids stored in this storage vessel and the maximum true vapor pressure (psia), as stored, of each liquid that has a maximum true vapor pressure greater than1.0 pound per square inch, absolute for a period of not less than five years.

IV. Reporting Requirements

1. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition B.2 and supplemented as follows:

   a. <u>Periodic Reports</u>

      The permittee shall submit, as part of the periodic report, documentation of the results of each seal gap measurement made in which the seal gap and seal requirements in these terms and conditions are not met. This documentation shall include the date of the seal gap measurement, the raw data obtained in the seal gap measurement and the calculations described in section A.III.1.d, a description of any seal conditions described in section A.III that have not been met, and a description of the nature of and date of the repair or the date the storage vessel was emptied. If an extension is utilized, the permittee shall, in the next periodic report, identify the vessel, include the documentation specified in section A.III.7 of these terms and conditions, and indicate the date the vessel was emptied and the nature of and date of the repair.

      The permittee shall submit, as part of the periodic report, documentation of any failures that are identified during any inspections required by this permit. The documentation shall meet the specifications and requirements in the paragraph above. Each periodic report shall include the date of the inspection, identification of each storage vessel in which a failure was detected, and a description of the failure. The periodic report shall also describe the nature of and date of the repair.

      These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status

Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton City Health Department, Air Pollution Control Division (Canton laa)_in writing at least 30 calendar days prior to the performance of any gap measurements as required by this permit, or the refilling of this storage vessel following a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the_Canton laa at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing, provided that it is received at least 7 days prior to the refilling.

2. All reports and submittals shall be sent to the Administrator, Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

a. Control Measure:

This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

V. 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,000,000-gallon petroleum storage tank identified as tank number 66 (emissions unit T036). It has an external floating roof with a mechanical shoe primary seal and a rim mounted secondary seal. It is classified as a Group 1 storage vessel, pursuant to 40 CFR Part 63, Subpart CC.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(Z)	See section A.I.2.b.

2. Additional Terms and Conditions

2.a This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

2.b The requirements specified in OAC rule 3745-21-09(Z) are as stringent as the requirements specified in 40 CFR Part 63, Subpart CC.

2.c The permittee shall add the gap surface area of each gap location for the primary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the primary seal shall not exceed 212 square centimeters per meter of vessel diameter (10 square inches per foot of vessel diameter) and the width of any portion of any gap shall not exceed 3.81 centimeters (1.5 inches).

2.d The permittee shall add the gap surface area of each gap location for the secondary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between

the vessel wall and the secondary seal shall not exceed 21.1 square centimeters per meter of vessel diameter (1.0 square inch per foot of vessel diameter) and the width of any portion of any gap shall not exceed 1.27 centimeters (0.5 inch). The seal gap requirements may be exceeded during the measurement of primary seal gaps as indicated in section A.III.1.d below.

2.e There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

II. Operational Restrictions

a. The permittee shall equip this storage vessel with an external floating roof control device equipped with a mechanical shoe primary (lower) seal and a wiper type secondary (upper) seal. If the storage vessel is equipped with only a metallic shoe primary seal as of December 31, 1992, the requirement for a secondary seal does not apply until the next time the storage vessel is emptied or degassed or no later than August 18, 2005, whichever is earlier.

2. The permittee shall ensure that both the primary seal and the secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion, except during internal inspections conducted in accordance with section A.III of these terms and conditions.

3. The permittee shall ensure that the external floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports during the initial fill, after the vessel has been completely emptied and degassed, or when the vessel has been completely emptied before being subsequently refilled.

4. The permittee shall ensure that when the external floating roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as practical.

5. The permittee shall equip all openings in the external floating roof, except automatic bleeder vents, rim space vents, leg sleeves, stub drains, and slotted gauging/sampling wells with a cover, seal, or lid which will remain in the closed position at all times without any visible gaps, except when the opening is in use and a projection into the tank below the liquid surface.

6. The permittee shall ensure that rim space vents are set open only when the external floating roof is not floating and when the pressure beneath the rim seal exceeds the manufacturer's recommended setting.

7. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

8. Any emergency roof drain shall be equipped with a slotted membrane fabric cover or other device which covers at least ninety percent of the area of the opening.

9. Any stub drain shall be equipped with a projection into the tank below the liquid surface.

10. Any slotted gauging/sampling well is equipped with an object which floats on the liquid surface within the well, which closes off the liquid surface from the atmosphere, and which covers at least ninety percent of the area of the well opening. Each unslotted guide pole well shall have a gasketed sliding cover or a flexible fabric sleeve seal. Each one shall have a gasketed cap on the end of the pole which is closed at all times except when gauging the liquid level or taking liquid samples. Each slotted guide pole well shall ahve a gasketed sliding cover or a flexible fabric sleeve seal.

11. All rim space vents and automatic bleeder vents shall be gasketed.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall comply with section A.III.1 unless it is determined that it is unsafe to do so because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel. If compliance with section A.III.1 is deemed unsafe because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with section A.III.2 of these terms and conditions.

    a. The permittee shall perform measurements of gaps between the vessel wall and the primary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every 5 years thereafter.

    b. The permittee shall perform measurements of gaps between the vessel wall and the secondary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every year thereafter.

    c. If the maximum true vapor pressure of the total organic HAPs in the stored liquid falls below the values defining a Group 1 storage vessel as specified in 40 CFR 63.641 for a period of 1 year or more, the permittee shall perform measurements of gaps between the vessel wall and the primary and secondary seals within 90 calendar days of the vessel being refilled.

    d. The permittee shall determine gap widths and gap areas in the primary and secondary seals individually by the procedures described below:

        i. Seal gaps shall be measured at one or more external floating roof levels when the roof is not resting on the roof leg supports;

        ii. Seal gaps shall be measured around the entire circumference of the vessel in each place where a 0.32 centimeter (1/8 inch) diameter uniform probe passes freely (without forcing or binding against the seal) between the seal and the wall of the storage vessel. The circumferential distance of each such location shall also be measured.

e. The total surface area of each gap of this section shall be determined by using probes of various widths to measure accurately the actual distance from the vessel wall to the seal and multiplying each such width by its respective circumferential distance.

f. The permittee shall keep records describing the results of each seal gap measurement made in accordance with this permit. The records shall include the date of the measurement, the raw data obtained in the measurement, and calculations described within section A.III.1 of this permit.

2. If the external floating roof is deemed unsafe because it appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with one of the following:

   a. The permittee shall measure the seal gaps or inspect the storage vessel no later than 30 calendar days after the determination that the roof is unsafe.

   or

   b. The permittee shall empty and remove the storage vessel from service no later than 45 calendar days after determining that the roof is unsafe. If the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

3. The permittee shall repair conditions that do not meet requirements listed within this section of the permit no later than 45 calendar days after identification of such a condition. If during seal gap measurements or during inspections necessary to determine compliance with the terms and conditions of this permit, a failure is detected that cannot be repaired within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

4. The permittee shall visually inspect the external floating roof, the primary seal, secondary seal, and the fittings each time the vessel is emptied and degassed and, at least, annually. The permittee shall inspect for failures as defined at any time:

   a. the external floating roof has defects; or

   b. the primary or secondary seal has holes, tears, or other openings in the seal or seal fabric.

The permittee shall repair the failures described above, as necessary, so that none of the conditions of the failures exist prior to filling or refilling the storage vessel with organic HAP.

5. The permittee shall keep all documentation required by this permit, records showing the dimensions of the storage vessel, and an analysis showing the capacity of the storage vessel in a readily accessible location. The records showing vessel dimensions and an analysis of the vessel's capacity shall be kept as long as the storage vessel retains a Group 1 status and is still in operation.

6. The permittee shall maintain records of the dates and results of any inspections or measurements performed in accordance with OAC rule 3745-21-09(Z)(2)(a) to OAC rule 3745-21-09(Z)(2)(c) and the annual throughput of any petroleum liquid stored in the tank. These records shall be maintained for a period not less than 2 years.

7. The permittee shall maintain records of the types of petroleum liquids stored in this storage vessel and the maximum true vapor pressure (psia), as stored, of each liquid that has a maximum true vapor pressure greater than1.0 pound per square inch, absolute for a period of not less than five years.

IV. Reporting Requirements

1. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition B.2 and supplemented as follows:

   a. <u>Periodic Reports</u>

      The permittee shall submit, as part of the periodic report, documentation of the results of each seal gap measurement made in which the seal gap and seal requirements in these terms and conditions are not met. This documentation shall include the date of the seal gap measurement, the raw data obtained in the seal gap measurement and the calculations described in section A.III.1.d, a description of any seal conditions described in section A.III that have not been met, and a description of the nature of and date of the repair or the date the storage vessel was emptied. If an extension is utilized, the permittee shall, in the next periodic report, identify the vessel, include the documentation specified in section A.III.7 of these terms and conditions, and indicate the date the vessel was emptied and the nature of and date of the repair.

      The permittee shall submit, as part of the periodic report, documentation of any failures that are identified during any inspections required by this permit. The documentation shall meet the specifications and requirements in the paragraph above. Each periodic report shall include the date of the inspection, identification of each storage vessel in which a failure was detected, and a description of the failure. The periodic report shall also describe the nature of and date of the repair.

      These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status

Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton City Health Department, Air Pollution Control Division (Canton LAA) in writing at least 30 calendar days prior to the performance of any gap measurements as required by this permit, or the refilling of this storage vessel following a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the Canton LAA at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing, provided that it is received at least 7 days prior to the refilling.

2. All reports and submittals shall be sent to the Administrator, Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

a. Control Measure:

This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

V. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limiations 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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,000,000-gallon storage tank for the storage of petroleum liquids. The tank is identified as tank number 67 (emissions unit T037). It has an internal floating roof with a metallic shoe primary seal. The emissions unit currently operates as a Group 1 storage vessel under the refinery MACT (Subpart CC).	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(L)	The requirements of this applicable rule are less stringent than the requirements specified in 40 CFR Part 63, Subpart CC.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof and a metallic shoe primary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

a. The internal floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports after the vessel has been completely emptied and degassed or when the vessel is completely emptied before being subsequently refilled.

2. The filling, refilling, or emptying of the vessel shall be continuous and shall be accomplished as soon as practical when the floating roof is resting on the leg supports.

3. The internal floating roof shall be equipped with a metallic shoe seal.

4. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid. The cover or lid shall be equipped with a gasket. All tank covers and lids shall remain closed except when the cover or lid must be open for access. Covers on each access hatch and each gauge float well shall be bolted or fastened so as to be air-tight when they are closed.

5. Each penetration of the internal floating roof for the purposes of sampling shall be a sample well. Each sample well shall have a slit fabric cover that covers at least 90% of the opening.

6. Each penetration of the internal floating roof that allows for passage of a ladder or the support column for the fixed roof shall have a gasketed sliding cover.

7. Rim space vents are to be set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Each rim space vent shall be gasketed.

8. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Each automatic bleeder vent shall be gasketed.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall conduct the following inspections on this emissions unit:

   a. Visually inspect the internal floating roof and primary seal through manholes and roof hatches at least once every 12 months following the compliance date or once every 12 months after the initial fill (i.e., annual inspection). The permittee shall repair any items found as a result of the inspections required in section A.III.2 below or empty and remove the storage vessel from service within 45 calendar days.

   b. Visually inspect the internal floating roof and seal each time the storage vessel is emptied and degassed and at least once every 10 years after the compliance date (i.e., internal inspection). If during an inspection, the permittee finds any of the conditions indicated in section A.III.2 below, the condition shall be corrected prior to refilling the storage vessel.

2. During the visual inspections, the permittee shall inspect, at a minimum, for the following control equipment failures :

   a. whether the internal roof is resting on the liquid surface inside the tank and is not resting on the leg supports;

   b. if there is liquid on the floating roof or if the internal floating roof has defects;

c. if the seal is detached or has holes or tears in the seal fabric; and

d. if there are visible gaps between the seal and the wall of the storage vessel.

3. The permittee shall retain records of each inspection performed on this emissions unit. These records shall include the date of the inspection, identification of the storage vessel, description of each failure, the nature and date of repair or date the vessel was emptied if the failure is to be repaired in 45 calendar days from discovery. If a failure cannot be repaired and if the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 calendar days each. The permittee shall document the decision to utilize an extension. This documentation shall include a description of the failure, that alternative storage is unavailable and a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. This documentation shall be kept in a readily accessible location.

4. All records shall be retained for at least 5 years, unless otherwise indicated within this section, in such a manner that they can be readily accessed within 24 hrs.

5. The permittee shall maintain records of the type of petroleum liquid stored in the vessel, the maximum true vapor pressure of the liquid stored in the vessel, the vessel's group determination, the vessel's dimensions, and an analysis showing the capacity of the vessel. This record shall be kept as long as the storage vessel retains Group 1 status and is in operation.

IV. Reporting Requirements

1. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition A.1:

a. <u>Periodic Reports</u>

The permittee shall submit a periodic report when the emissions unit experiences a failure as indicated in section A.III.2 of these terms and conditions. The reports shall contain the results of each inspection in which a failure was detected and repaired within 45 calendar days and the date of the inspection, identification of the storage vessel, the description of the failure, and the nature and date of repair or the date the vessel was emptied. If an extension is utilized as discussed in section A.III.3 of these terms and conditions, the permittee shall, in the next periodic report, identify the vessel, include the documentation identified above, and indicate the date the storage vessel was emptied and the nature of and date of the repair. These reports shall be submitted within 60 days after the end of the current 6 month reporting period. The first 6-month period shall begin on the date the notification of Compliance Status Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. <u>Internal Inspection Notification</u>

The permittee shall notify the Canton local air agency at least 30 calendar days prior to the refilling of this storage vessel or a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance then the permittee shall notify the Canton local air agency at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing provided that it is received at least 7 days prior to the refilling.

2. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 1 storage vessel to a Group 2 storage vessel. All deviation (excursion) reports shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

3. All reports and submittals shall be sent to the Administrator, City of Canton Health Department, Division of Air Pollution Control, 420 Market Ave., N, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

   a. Control Measures:

   The permittee shall employ an internal floating roof and a metallic shoe primary seal when operating this emissions unit as a Group 1 storage vessel. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

   Applicable Compliance Method:

   Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 2,100,000-gallon petroleum storage tank identified as tank number 68 (emissions unit T038). It has an external floating roof with a mechanical shoe primary seal and a rim mounted secondary seal. It is classified as a Group 1 storage vessel, pursuant to 40 CFR Part 63, Subpart CC.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(Z)	See section A.I.2.b.

2. Additional Terms and Conditions

2.a This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

2.b The requirements specified in OAC rule 3745-21-09(Z) are as stringent as the requirements specified in 40 CFR Part 63, Subpart CC.

2.c The permittee shall add the gap surface area of each gap location for the primary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the primary seal shall not exceed 212 square centimeters per meter of vessel diameter (10 square inches per foot of vessel diameter) and the width of any portion of any gap shall not exceed 3.81 centimeters (1.5 inches).

2.d The permittee shall add the gap surface area of each gap location for the secondary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the secondary seal shall not exceed 21.1 square centimeters per meter of vessel diameter (1.0 square inch per foot of vessel diameter) and the width of any portion of any gap shall not exceed 1.27 centimeters (0.5 inch). The seal gap requirements may be exceeded during the measurement of primary seal gaps as indicated in section A.III.1.d below.

2.e There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

II. Operational Restrictions

a. The permittee shall equip this storage vessel with an external floating roof control device equipped with a mechanical shoe primary (lower) seal and a wiper type secondary (upper) seal. If the storage vessel is equipped with only a metallic shoe primary seal as of December 31, 1992, the requirement for a secondary seal does not apply until the next time the storage vessel is emptied or degassed or no later than August 18, 2005, whichever is earlier.

2. The permittee shall ensure that both the primary seal and the secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion, except during internal inspections conducted in accordance with section A.III of these terms and conditions.

3. The permittee shall ensure that the external floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports during the initial fill, after the vessel has been completely emptied and degassed, or when the vessel has been completely emptied before being subsequently refilled.

4. The permittee shall ensure that when the external floating roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as practical.

5. The permittee shall equip all openings in the external floating roof, except automatic bleeder vents, rim space vents, leg sleeves, stub drains, and slotted gauging/sampling wells with a cover, seal, or lid which will remain in the closed position at all times without any visible gaps, except when the opening is in use and a projection into the tank below the liquid surface.

6. The permittee shall ensure that rim space vents are set open only when the external floating roof is not floating and when the pressure beneath the rim seal exceeds the manufacturer's recommended setting.

7. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

8. Any emergency roof drain shall be equipped with a slotted membrane fabric cover or other device which covers at least ninety percent of the area of the opening.

9. Any stub drain shall be equipped with a projection into the tank below the liquid surface.

10. Any slotted gauging/sampling well is equipped with an object which floats on the liquid surface within the well, which closes off the liquid surface from the atmosphere, and which covers at least ninety percent of the area of the well opening. Each unslotted guide pole well shall have a gasketed sliding cover or a flexible fabric sleeve seal. Each one shall have a gasketed cap on the end of the pole which is closed at all times except when gauging the liquid level or taking liquid samples. Each slotted guide pole well shall ahve a gasketed sliding cover or a flexible fabric sleeve seal.

11. All rim space vents and automatic bleeder vents shall be gasketed.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall comply with section A.III.1 unless it is determined that it is unsafe to do so because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel. If compliance with section A.III.1 is deemed unsafe because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with section A.III.2 of these terms and conditions.

   a. The permittee shall perform measurements of gaps between the vessel wall and the primary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every 5 years thereafter.

   b. The permittee shall perform measurements of gaps between the vessel wall and the secondary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every year thereafter.

   c. If the maximum true vapor pressure of the total organic HAPs in the stored liquid falls below the values defining a Group 1 storage vessel as specified in 40 CFR 63.641 for a period of 1 year or more, the permittee shall perform measurements of gaps between the vessel wall and the primary and secondary seals within 90 calendar days of the vessel being refilled.

   d. The permittee shall determine gap widths and gap areas in the primary and secondary seals individually by the procedures described below:

      i. Seal gaps shall be measured at one or more external floating roof levels when the roof is not resting on the roof leg supports;

      ii. Seal gaps shall be measured around the entire circumference of the vessel in each place where a 0.32 centimeter (1/8 inch) diameter uniform probe passes freely (without forcing or binding against the seal) between the seal and the wall of the storage vessel. The circumferential distance of each such location shall also be measured.

e. The total surface area of each gap of this section shall be determined by using probes of various widths to measure accurately the actual distance from the vessel wall to the seal and multiplying each such width by its respective circumferential distance.

f. The permittee shall keep records describing the results of each seal gap measurement made in accordance with this permit. The records shall include the date of the measurement, the raw data obtained in the measurement, and calculations described within section A.III.1 of this permit.

2. If the external floating roof is deemed unsafe because it appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with one of the following:

   a. The permittee shall measure the seal gaps or inspect the storage vessel no later than 30 calendar days after the determination that the roof is unsafe.

   or

   b. The permittee shall empty and remove the storage vessel from service no later than 45 calendar days after determining that the roof is unsafe. If the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

3. The permittee shall repair conditions that do not meet requirements listed within this section of the permit no later than 45 calendar days after identification of such a condition. If during seal gap measurements or during inspections necessary to determine compliance with the terms and conditions of this permit, a failure is detected that cannot be repaired within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

4. The permittee shall visually inspect the external floating roof, the primary seal, secondary seal, and the fittings each time the vessel is emptied and degassed and, at least, annually. The permittee shall inspect for failures as defined at any time:

   a. the external floating roof has defects; or

b. the primary or secondary seal has holes, tears, or other openings in the seal or seal fabric.

The permittee shall repair the failures described above, as necessary, so that none of the conditions of the failures exist prior to filling or refilling the storage vessel with organic HAP.

5. The permittee shall keep all documentation required by this permit, records showing the dimensions of the storage vessel, and an analysis showing the capacity of the storage vessel in a readily accessible location. The records showing vessel dimensions and an analysis of the vessel's capacity shall be kept as long as the storage vessel retains a Group 1 status and is still in operation.

6. The permittee shall maintain records of the dates and results of any inspections or measurements performed in accordance with OAC rule 3745-21-09(Z)(2)(a) to OAC rule 3745-21-09(Z)(2)(c) and the annual throughput of any petroleum liquid stored in the tank. These records shall be maintained for a period not less than 2 years.

7. The permittee shall maintain records of the types of petroleum liquids stored in this storage vessel and the maximum true vapor pressure (psia), as stored, of each liquid that has a maximum true vapor pressure greater than1.0 pound per square inch, absolute for a period of not less than five years.

IV. Reporting Requirements

1. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition B.2 and supplemented as follows:

a. <u>Periodic Reports</u>

The permittee shall submit, as part of the periodic report, documentation of the results of each seal gap measurement made in which the seal gap and seal requirements in these terms and conditions are not met. This documentation shall include the date of the seal gap measurement, the raw data obtained in the seal gap measurement and the calculations described in section A.III.1.d, a description of any seal conditions described in section A.III that have not been met, and a description of the nature of and date of the repair or the date the storage vessel was emptied. If an extension is utilized, the permittee shall, in the next periodic report, identify the vessel, include the documentation specified in section A.III.7 of these terms and conditions, and indicate the date the vessel was emptied and the nature of and date of the repair.

The permittee shall submit, as part of the periodic report, documentation of any failures that are identified during any inspections required by this permit. The documentation shall meet the specifications and requirements in the paragraph above. Each periodic report shall include the date of the inspection, identification of each storage vessel in which a failure was detected, and a description of the failure. The periodic report shall also describe the nature of and date of the repair.

These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton City Health Department, Air Pollution Control Division (Canton LAA) in writing at least 30 calendar days prior to the performance of any gap measurements as required by this permit, or the refilling of this storage vessel following a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the Canton LAA at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing, provided that it is received at least 7 days prior to the refilling.

2. All reports and submittals shall be sent to the Administrator, Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

a. Control Measure:

This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

V. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 2,100,000-gallon petroleum storage tank identified as tank number 74 (emissions unit T039). It has an external floating roof with a mechanical shoe primary seal and a rim mounted secondary seal. It is classified as a Group 1 storage vessel, pursuant to 40 CFR Part 63, Subpart CC.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(Z)	See section A.I.2.b.

2. Additional Terms and Conditions

2.a This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

2.b The requirements specified in OAC rule 3745-21-09(Z) are as stringent as the requirements specified in 40 CFR Part 63, Subpart CC.

2.c The permittee shall add the gap surface area of each gap location for the primary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the primary seal shall not exceed 212 square centimeters per meter of vessel diameter (10 square inches per foot of vessel diameter) and the width of any portion of any gap shall not exceed 3.81 centimeters (1.5 inches).

2.d The permittee shall add the gap surface area of each gap location for the secondary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the secondary seal shall not exceed 21.1 square centimeters per meter of vessel diameter (1.0 square inch per foot of vessel diameter) and the width of any portion of any gap shall not exceed 1.27 centimeters (0.5 inch). The seal gap requirements may be exceeded during the measurement of primary seal gaps as indicated in section A.III.1.d below.

2.e There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

II. Operational Restrictions

a. The permittee shall equip this storage vessel with an external floating roof control device equipped with a mechanical shoe primary (lower) seal and a wiper type secondary (upper) seal. If the storage vessel is equipped with only a metallic shoe primary seal as of December 31, 1992, the requirement for a secondary seal does not apply until the next time the storage vessel is emptied or degassed or no later than August 18, 2005, whichever is earlier.

2. The permittee shall ensure that both the primary seal and the secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion, except during internal inspections conducted in accordance with section A.III of these terms and conditions.

3. The permittee shall ensure that the external floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports during the initial fill, after the vessel has been completely emptied and degassed, or when the vessel has been completely emptied before being subsequently refilled.

4. The permittee shall ensure that when the external floating roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as practical.

5. The permittee shall equip all openings in the external floating roof, except automatic bleeder vents, rim space vents, leg sleeves, stub drains, and slotted gauging/sampling wells with a cover, seal, or lid which will remain in the closed position at all times without any visible gaps, except when the opening is in use and a projection into the tank below the liquid surface.

6. The permittee shall ensure that rim space vents are set open only when the external floating roof is not floating and when the pressure beneath the rim seal exceeds the manufacturer's recommended setting.

7. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

8. Any emergency roof drain shall be equipped with a slotted membrane fabric cover or other device which covers at least ninety percent of the area of the opening.

9. Any stub drain shall be equipped with a projection into the tank below the liquid surface.

10. Any slotted gauging/sampling well is equipped with an object which floats on the liquid surface within the well, which closes off the liquid surface from the atmosphere, and which covers at least ninety percent of the area of the well opening. Each unslotted guide pole well shall have a gasketed sliding cover or a flexible fabric sleeve seal. Each one shall have a gasketed cap on the end of the pole which is closed at all times except when gauging the liquid level or taking liquid samples. Each slotted guide pole well shall ahve a gasketed sliding cover or a flexible fabric sleeve seal.

11. All rim space vents and automatic bleeder vents shall be gasketed.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall comply with section A.III.1 unless it is determined that it is unsafe to do so because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel. If compliance with section A.III.1 is deemed unsafe because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with section A.III.2 of these terms and conditions.

   a. The permittee shall perform measurements of gaps between the vessel wall and the primary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every 5 years thereafter.

   b. The permittee shall perform measurements of gaps between the vessel wall and the secondary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every year thereafter.

   c. If the maximum true vapor pressure of the total organic HAPs in the stored liquid falls below the values defining a Group 1 storage vessel as specified in 40 CFR 63.641 for a period of 1 year or more, the permittee shall perform measurements of gaps between the vessel wall and the primary and secondary seals within 90 calendar days of the vessel being refilled.

   d. The permittee shall determine gap widths and gap areas in the primary and secondary seals individually by the procedures described below:

      i. Seal gaps shall be measured at one or more external floating roof levels when the roof is not resting on the roof leg supports;

      ii. Seal gaps shall be measured around the entire circumference of the vessel in each place where a 0.32 centimeter (1/8 inch) diameter uniform probe passes freely (without forcing or binding against the seal) between the seal and the wall of the storage vessel. The circumferential distance of each such location shall also be measured.

e. The total surface area of each gap of this section shall be determined by using probes of various widths to measure accurately the actual distance from the vessel wall to the seal and multiplying each such width by its respective circumferential distance.

f. The permittee shall keep records describing the results of each seal gap measurement made in accordance with this permit. The records shall include the date of the measurement, the raw data obtained in the measurement, and calculations described within section A.III.1 of this permit.

2. If the external floating roof is deemed unsafe because it appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with one of the following:

   a. The permittee shall measure the seal gaps or inspect the storage vessel no later than 30 calendar days after the determination that the roof is unsafe.

   or

   b. The permittee shall empty and remove the storage vessel from service no later than 45 calendar days after determining that the roof is unsafe. If the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

3. The permittee shall repair conditions that do not meet requirements listed within this section of the permit no later than 45 calendar days after identification of such a condition. If during seal gap measurements or during inspections necessary to determine compliance with the terms and conditions of this permit, a failure is detected that cannot be repaired within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

4. The permittee shall visually inspect the external floating roof, the primary seal, secondary seal, and the fittings each time the vessel is emptied and degassed and, at least, annually. The permittee shall inspect for failures as defined at any time:

   a. the external floating roof has defects; or

b. the primary or secondary seal has holes, tears, or other openings in the seal or seal fabric.

The permittee shall repair the failures described above, as necessary, so that none of the conditions of the failures exist prior to filling or refilling the storage vessel with organic HAP.

5. The permittee shall keep all documentation required by this permit, records showing the dimensions of the storage vessel, and an analysis showing the capacity of the storage vessel in a readily accessible location. The records showing vessel dimensions and an analysis of the vessel's capacity shall be kept as long as the storage vessel retains a Group 1 status and is still in operation.

6. The permittee shall maintain records of the dates and results of any inspections or measurements performed in accordance with OAC rule 3745-21-09(Z)(2)(a) to OAC rule 3745-21-09(Z)(2)(c) and the annual throughput of any petroleum liquid stored in the tank. These records shall be maintained for a period not less than 2 years.

7. The permittee shall maintain records of the types of petroleum liquids stored in this storage vessel and the maximum true vapor pressure (psia), as stored, of each liquid that has a maximum true vapor pressure greater than1.0 pound per square inch, absolute for a period of not less than five years.

IV. Reporting Requirements

1. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition B.2 and supplemented as follows:

a. <u>Periodic Reports</u>

The permittee shall submit, as part of the periodic report, documentation of the results of each seal gap measurement made in which the seal gap and seal requirements in these terms and conditions are not met. This documentation shall include the date of the seal gap measurement, the raw data obtained in the seal gap measurement and the calculations described in section A.III.1.d, a description of any seal conditions described in section A.III that have not been met, and a description of the nature of and date of the repair or the date the storage vessel was emptied. If an extension is utilized, the permittee shall, in the next periodic report, identify the vessel, include the documentation specified in section A.III.7 of these terms and conditions, and indicate the date the vessel was emptied and the nature of and date of the repair.

The permittee shall submit, as part of the periodic report, documentation of any failures that are identified during any inspections required by this permit. The documentation shall meet the specifications and requirements in the paragraph above. Each periodic report shall include the date of the inspection, identification of each storage vessel in which a failure was detected, and a description of the failure. The periodic report shall also describe the nature of and date of the repair.

These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton City Health Department, Air Pollution Control Division (Canton LAA) in writing at least 30 calendar days prior to the performance of any gap measurements as required by this permit, or the refilling of this storage vessel following a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the Canton LAA at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing, provided that it is received at least 7 days prior to the refilling.

2. All reports and submittals shall be sent to the Administrator, Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

a. Control Measure:

This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

V. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 506,000-gallon Group 1 storage tank for the storage of petroleum liquids. The tank is identified as tank number 117 (emissions unit T040). It employs an internal floating roof with a vapor type primary seal and a wiper type secondary seal.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(L)	The requirements of this applicable rule are less stringent than the requirements specified in 40 CFR Part 63, Subpart CC.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof, a vapor type primary seal, and a wiper type secondary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

a. The internal floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports after the vessel has been completely emptied and degassed or when the vessel is completely emptied before being subsequently refilled.

2. The filling, refilling, or emptying of the vessel shall be continuous and shall be accomplished as soon as practical when the floating roof is resting on the leg supports.

3. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid.

The cover or lid shall be equipped with a gasket. All tank covers and lids shall remain closed except when the cover or lid must be open for access. Covers on each access hatch and each gauge float well shall be bolted or fastened so as to be air-tight when they are closed.

4. Each penetration of the internal floating roof for the purposes of sampling shall be a sample well. Each sample well shall have a slit fabric cover that covers at least 90% of the opening.

5. Each penetration of the internal floating roof that allows for passage of a ladder or the support column for the fixed roof shall have a gasketed sliding cover.

6. Rim space vents are set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Each rim space vent shall be gasketed.

7. Automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Each automatic bleeder vent shall be gasketed.

8. The seals of a dual seal system are mounted one above the other with the vapor-mounted seal being the lower seal. The combination of the two seals shall form a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. If the vapor mounted seal is installed as of December 31, 1992, the requirement that one of the seals specified in 40 CFR Parts 63.119(b)(3) thru 63.119(b)(3)iii be utilized does not apply until either the next time the vessel is emptied and degassed or no later than August 18, 2005, whichever comes first.

9. There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections and maintain records of those inspection for this emissions unit:

   a. Visually inspect the internal floating roof and primary seal through manholes and roof hatches at least once every 12 months following the compliance date or once every 12 months after the initial fill (ie, annual inspection). The permittee shall repair any items found as a result of the inspections required in section A.III.2 below or empty and remove the storage vessel from service within 45 calendar days.

   b. Visually inspect the internal floating roof and seal each time the storage vessel is emptied and degassed and at least once every 10 years after the compliance date (ie, internal inspection). If, during an inspection, the permittee finds any of the conditions indicated in section A.III.2 below, the condition shall be corrected prior to refilling the storage vessel.

2. During the visual inspections, the permittee shall inspect, at a minimum, for the following control equipment failures:

a. whether the internal roof is resting on the liquid surface inside the tank and is not resting on the leg supports;

b. if there is liquid on the floating roof or if the internal floating roof has defects;

c. if the seal is detached or has holes or tears in the seal fabric; and

d. if there are visible gaps between the seal and the wall of the storage vessel.

3. The permittee shall retain records of each inspection performed on this emissions unit . These records shall include the date of the inspection, identification of the storage vessel, description of each failure, the nature and date of repair or date the vessel was emptied if the failure is to be repaired in 45 calendar days from discovery. If a failure cannot be repaired and if the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 calendar days each. The permittee shall document the decision to utilize an extension. This documentation shall include a description of the failure, that alternative storage is unavailable and a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. This documentation shall be kept in a readily accessible location.

4. All records shall be retained for at least 5 years, unless otherwise indicated within this section, in such a manner that they can be readily accessed within 24 hrs.

5. The permittee shall maintain records of the type of petroleum liquid stored in the vessel, the maximum true vapor pressure of the liquid stored in the vessel, the vessel's group determination, the vessel's dimensions, and an analysis showing the capacity of the vessel. This record shall be kept as long as the storage vessel retains Group 1 status and is in operation.

IV. Reporting Requirements

2. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition A.1:

a. <u>Periodic Reports</u>

The permittee shall submit a periodic report when the emissions unit experiences a failure as indicated in section A.III.2 of these terms and conditions. The reports shall contain the results of each inspection in which a failure was detected and repaired within 45 calendar days and the date of the inspection, identification of the storage vessel, the description of the failure, and the nature and date of repair or the date the vessel was emptied. If an extension is utilized as discussed in section A.III.3 of these terms and conditions, the permittee shall, in the next periodic report, identify the vessel, include the documentation identified above, and indicate the date the storage vessel was emptied and the nature of and date of the repair. These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status Report is

required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton local air agency at least 30 calendar days prior to the refilling of this storage vessel or a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the Canton local air agency at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing provided that it is received at least 7 days prior to the refilling.

2. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 1 storage vessel to a Group 2 storage vessel. All deviation (excursion) reports shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

3. All reports and submittals shall be sent to the Administrator, City of Canton Health Department, Division of Air Pollution Control, 420 Market Ave., N, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

a. Control Measures:

The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof, a vapor type primary seal, and a wiper type secondary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 6,090,000-gallon Group 1 storage tank for the storage of petroleum liquids. The tank is identified as tank number 214 (emissions unit T041). It employs an internal floating roof with a vapor type primary seal and a wiper type secondary seal.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(L)	The requirements of this applicable rule are less stringent than the requirements specified in 40 CFR Part 63, Subpart CC.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof, a vapor type primary seal, and a wiper type secondary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

c. The internal floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports after the vessel has been completely emptied and degassed or when the vessel is completely emptied before being subsequently refilled.

2. The filling, refilling, or emptying of the vessel shall be continuous and shall be accomplished as soon as practical when the floating roof is resting on the leg supports.

3. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid. The cover or lid shall be equipped with a gasket. All tank covers and lids shall remain closed except when the cover or lid must be open for access. Covers on each access hatch and each gauge float well shall be bolted or fastened so as to be air-tight when they are closed.

4. Each penetration of the internal floating roof for the purposes of sampling shall be a sample well. Each sample well shall have a slit fabric cover that covers at least 90% of the opening.

5. Each penetration of the internal floating roof that allows for passage of a ladder or the support column for the fixed roof shall have a gasketed sliding cover.

6. Rim space vents are set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Each rim space vent shall be gasketed.

7. Automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Each automatic bleeder vent shall be gasketed.

8. The seals of a dual seal system are mounted one above the other with the vapor-mounted seal being the lower seal. The combination of the two seals shall form a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. If the vapor mounted seal is installed as of December 31, 1992, the requirement that one of the seals specified in 40 CFR Parts 63.119(b)(3) thru 63.119(b)(3)iii be utilized does not apply until either the next time the vessel is emptied and degassed or no later than August 18, 2005, whichever comes first.

9. There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections and maintain records of those inspection for this emissions unit:

   a. Visually inspect the internal floating roof and primary seal through manholes and roof hatches at least once every 12 months following the compliance date or once every 12 months after the initial fill (ie, annual inspection). The permittee shall repair any items found as a result of the inspections required in section A.III.2 below or empty and remove the storage vessel from service within 45 calendar days.

   b. Visually inspect the internal floating roof and seal each time the storage vessel is emptied and degassed and at least once every 10 years after the compliance date (ie, internal inspection). If, during an inspection, the permittee finds any of the conditions indicated in section A.III.2 below, the condition shall be corrected prior to refilling the storage vessel.

2. During the visual inspections, the permittee shall inspect, at a minimum, for the following control equipment failures:

   a. whether the internal roof is resting on the liquid surface inside the tank and is not resting on the leg supports;

   b. if there is liquid on the floating roof or if the internal floating roof has defects;

   c. if the seal is detached or has holes or tears in the seal fabric; and

   d. if there are visible gaps between the seal and the wall of the storage vessel.

3. The permittee shall retain records of each inspection performed on this emissions unit . These records shall include the date of the inspection, identification of the storage vessel, description of each failure, the nature and date of repair or date the vessel was emptied if the failure is to be repaired in 45 calendar days from discovery. If a failure cannot be repaired and if the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 calendar days each. The permittee shall document the decision to utilize an extension. This documentation shall include a description of the failure, that alternative storage is unavailable and a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. This documentation shall be kept in a readily accessible location.

4. All records shall be retained for at least 5 years, unless otherwise indicated within this section, in such a manner that they can be readily accessed within 24 hrs.

5. The permittee shall maintain records of the type of petroleum liquid stored in the vessel, the maximum true vapor pressure of the liquid stored in the vessel, the vessel's group determination, the vessel's dimensions, and an analysis showing the capacity of the vessel. This record shall be kept as long as the storage vessel retains Group 1 status and is in operation.

IV. Reporting Requirements

4. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition A.1:

   a. <u>Periodic Reports</u>

      The permittee shall submit a periodic report when the emissions unit experiences a failure as indicated in section A.III.2 of these terms and conditions. The reports shall contain the results of each inspection in which a failure was detected and repaired within 45 calendar days and the date of the inspection, identification of the storage vessel, the description of the failure, and the nature and date of repair or the date the vessel was emptied. If an extension is utilized as discussed in section A.III.3 of these terms and conditions, the permittee shall, in the next

periodic report, identify the vessel, include the documentation identified above, and indicate the date the storage vessel was emptied and the nature of and date of the repair. These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton local air agency at least 30 calendar days prior to the refilling of this storage vessel or a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the Canton local air agency at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing provided that it is received at least 7 days prior to the refilling.

2. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 1 storage vessel to a Group 2 storage vessel. All deviation (excursion) reports shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

3. All reports and submittals shall be sent to the Administrator, City of Canton Health Department, Division of Air Pollution Control, 420 Market Ave., N, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

Control Measures:

The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof, a vapor type primary seal, and a wiper type secondary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,850,000-gallon Group 1 storage tank for the storage of petroleum liquids. The tank is identified as tank number 225 (emissions unit T043). It employs an internal floating roof with a vapor type primary seal and a wiper type secondary seal.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(L)	The requirements of this applicable rule are less stringent than the requirements specified in 40 CFR Part 63, Subpart CC.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof, a vapor type primary seal, and a wiper type secondary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

c. The internal floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports after the vessel has been completely emptied and degassed or when the vessel is completely emptied before being subsequently refilled.

2. The filling, refilling, or emptying of the vessel shall be continuous and shall be accomplished as soon as practical when the floating roof is resting on the leg supports.

3. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid.

The cover or lid shall be equipped with a gasket. All tank covers and lids shall remain closed except when the cover or lid must be open for access. Covers on each access hatch and each gauge float well shall be bolted or fastened so as to be air-tight when they are closed.

4. Each penetration of the internal floating roof for the purposes of sampling shall be a sample well. Each sample well shall have a slit fabric cover that covers at least 90% of the opening.

5. Each penetration of the internal floating roof that allows for passage of a ladder or the support column for the fixed roof shall have a gasketed sliding cover.

6. Rim space vents are set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Each rim space vent shall be gasketed.

7. Automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Each automatic bleeder vent shall be gasketed.

8. The seals of a dual seal system are mounted one above the other with the vapor-mounted seal being the lower seal. The combination of the two seals shall form a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. If the vapor mounted seal is installed as of December 31, 1992, the requirement that one of the seals specified in 40 CFR Parts 63.119(b)(3) thru 63.119(b)(3)iii be utilized does not apply until either the next time the vessel is emptied and degassed or no later than August 18, 2005, whichever comes first.

9. There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections and maintain records of those inspection for this emissions unit:

   a. Visually inspect the internal floating roof and primary seal through manholes and roof hatches at least once every 12 months following the compliance date or once every 12 months after the initial fill (ie, annual inspection). The permittee shall repair any items found as a result of the inspections required in section A.III.2 below or empty and remove the storage vessel from service within 45 calendar days.

   b. Visually inspect the internal floating roof and seal each time the storage vessel is emptied and degassed and at least once every 10 years after the compliance date (ie, internal inspection). If, during an inspection, the permittee finds any of the conditions indicated in section A.III.2 below, the condition shall be corrected prior to refilling the storage vessel.

2. During the visual inspections, the permittee shall inspect, at a minimum, for the following control equipment failures:

   a. whether the internal roof is resting on the liquid surface inside the tank and is not resting on the leg supports;

   b. if there is liquid on the floating roof or if the internal floating roof has defects;

   c. if the seal is detached or has holes or tears in the seal fabric; and

   d. if there are visible gaps between the seal and the wall of the storage vessel.

3. The permittee shall retain records of each inspection performed on this emissions unit . These records shall include the date of the inspection, identification of the storage vessel, description of each failure, the nature and date of repair or date the vessel was emptied if the failure is to be repaired in 45 calendar days from discovery. If a failure cannot be repaired and if the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 calendar days each. The permittee shall document the decision to utilize an extension. This documentation shall include a description of the failure, that alternative storage is unavailable and a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. This documentation shall be kept in a readily accessible location.

4. All records shall be retained for at least 5 years, unless otherwise indicated within this section, in such a manner that they can be readily accessed within 24 hrs.

5. The permittee shall maintain records of the type of petroleum liquid stored in the vessel, the maximum true vapor pressure of the liquid stored in the vessel, the vessel's group determination, the vessel's dimensions, and an analysis showing the capacity of the vessel. This record shall be kept as long as the storage vessel retains Group 1 status and is in operation.

IV. Reporting Requirements

4. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition A.1:

   a. <u>Periodic Reports</u>

      The permittee shall submit a periodic report when the emissions unit experiences a failure as indicated in section A.III.2 of these terms and conditions. The reports shall contain the results of each inspection in which a failure was detected and repaired within 45 calendar days and the date of the inspection, identification of the storage vessel, the description of the failure, and the nature and date of repair or the date the vessel was emptied. If an extension is utilized as discussed in section A.III.3 of these terms and conditions, the permittee shall, in the next

periodic report, identify the vessel, include the documentation identified above, and indicate the date the storage vessel was emptied and the nature of and date of the repair. These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton local air agency at least 30 calendar days prior to the refilling of this storage vessel or a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the Canton local air agency at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing provided that it is received at least 7 days prior to the refilling.

2. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 1 storage vessel to a Group 2 storage vessel. All deviation (excursion) reports shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

3. All reports and submittals shall be sent to the Administrator, City of Canton Health Department, Division of Air Pollution Control, 420 Market Ave., N, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

Control Measures:

The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof, a vapor type primary seal, and a wiper type secondary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 6,090,000-gallon Group 1 storage tank for the storage of petroleum liquids. The tank is identified as tank number 232 (emissions unit T044). It employs an internal floating roof with a vapor type primary seal and a wiper type secondary seal.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(L)	The requirements of this applicable rule are less stringent than the requirements specified in 40 CFR Part 63, Subpart CC.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof, a vapor type primary seal, and a wiper type secondary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

c. The internal floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports after the vessel has been completely emptied and degassed or when the vessel is completely emptied before being subsequently refilled.

2. The filling, refilling, or emptying of the vessel shall be continuous and shall be accomplished as soon as practical when the floating roof is resting on the leg supports.

3. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid.

The cover or lid shall be equipped with a gasket. All tank covers and lids shall remain closed except when the cover or lid must be open for access. Covers on each access hatch and each gauge float well shall be bolted or fastened so as to be air-tight when they are closed.

4. Each penetration of the internal floating roof for the purposes of sampling shall be a sample well. Each sample well shall have a slit fabric cover that covers at least 90% of the opening.

5. Each penetration of the internal floating roof that allows for passage of a ladder or the support column for the fixed roof shall have a gasketed sliding cover.

6. Rim space vents are set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Each rim space vent shall be gasketed.

7. Automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Each automatic bleeder vent shall be gasketed.

8. The seals of a dual seal system are mounted one above the other with the vapor-mounted seal being the lower seal. The combination of the two seals shall form a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. If the vapor mounted seal is installed as of December 31, 1992, the requirement that one of the seals specified in 40 CFR Parts 63.119(b)(3) thru 63.119(b)(3)iii be utilized does not apply until either the next time the vessel is emptied and degassed or no later than August 18, 2005, whichever comes first.

9. There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections and maintain records of those inspection for this emissions unit:

   a. Visually inspect the internal floating roof and primary seal through manholes and roof hatches at least once every 12 months following the compliance date or once every 12 months after the initial fill (ie, annual inspection). The permittee shall repair any items found as a result of the inspections required in section A.III.2 below or empty and remove the storage vessel from service within 45 calendar days.

   b. Visually inspect the internal floating roof and seal each time the storage vessel is emptied and degassed and at least once every 10 years after the compliance date (ie, internal inspection). If, during an inspection, the permittee finds any of the conditions indicated in section A.III.2 below, the condition shall be corrected prior to refilling the storage vessel.

2. During the visual inspections, the permittee shall inspect, at a minimum, for the following control equipment failures:

   a. whether the internal roof is resting on the liquid surface inside the tank and is not resting on the leg supports;

   b. if there is liquid on the floating roof or if the internal floating roof has defects;

   c. if the seal is detached or has holes or tears in the seal fabric; and

   d. if there are visible gaps between the seal and the wall of the storage vessel.

3. The permittee shall retain records of each inspection performed on this emissions unit . These records shall include the date of the inspection, identification of the storage vessel, description of each failure, the nature and date of repair or date the vessel was emptied if the failure is to be repaired in 45 calendar days from discovery. If a failure cannot be repaired and if the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 calendar days each. The permittee shall document the decision to utilize an extension. This documentation shall include a description of the failure, that alternative storage is unavailable and a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. This documentation shall be kept in a readily accessible location.

4. All records shall be retained for at least 5 years, unless otherwise indicated within this section, in such a manner that they can be readily accessed within 24 hrs.

5. The permittee shall maintain records of the type of petroleum liquid stored in the vessel, the maximum true vapor pressure of the liquid stored in the vessel, the vessel's group determination, the vessel's dimensions, and an analysis showing the capacity of the vessel. This record shall be kept as long as the storage vessel retains Group 1 status and is in operation.

IV. Reporting Requirements

4. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition A.1:

   a. <u>Periodic Reports</u>

      The permittee shall submit a periodic report when the emissions unit experiences a failure as indicated in section A.III.2 of these terms and conditions. The reports shall contain the results of each inspection in which a failure was detected and repaired within 45 calendar days and the date of the inspection, identification of the storage vessel, the description of the failure, and the nature and date of repair or the date the vessel was emptied. If an extension is utilized as discussed in section A.III.3 of these terms and conditions, the permittee shall, in the next

periodic report, identify the vessel, include the documentation identified above, and indicate the date the storage vessel was emptied and the nature of and date of the repair. These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton local air agency at least 30 calendar days prior to the refilling of this storage vessel or a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the Canton local air agency at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing provided that it is received at least 7 days prior to the refilling.

2. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 1 storage vessel to a Group 2 storage vessel. All deviation (excursion) reports shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

3. All reports and submittals shall be sent to the Administrator, City of Canton Health Department, Division of Air Pollution Control, 420 Market Ave., N, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

Control Measures:

The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof, a vapor type primary seal, and a wiper type secondary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 666,036-gallon fixed roof storage vessel identified as tank number 226 (emissions unit T045) which is used to store petroleum liquid with a maximum true vapor pressure less than 1.5 psia. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true

vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

3. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

4. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 4,030,000-gallon petroleum storage tank identified as tank number 52 (emissions unit T046). It has an external floating roof with a mechanical shoe primary seal and a rim mounted secondary seal. It is classified as a Group 1 storage vessel, pursuant to 40 CFR Part 63, Subpart CC.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(Z)	See section A.I.2.b.

2. Additional Terms and Conditions

2.a This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

2.b The requirements specified in OAC rule 3745-21-09(Z) are as stringent as the requirements specified in 40 CFR Part 63, Subpart CC.

2.c The permittee shall add the gap surface area of each gap location for the primary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the primary seal shall not exceed 212 square centimeters per meter of vessel diameter (10 square inches per foot of vessel diameter) and the width of any portion of any gap shall not exceed 3.81 centimeters (1.5 inches).

2.d The permittee shall add the gap surface area of each gap location for the secondary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between

the vessel wall and the secondary seal shall not exceed 21.1 square centimeters per meter of vessel diameter (1.0 square inch per foot of vessel diameter) and the width of any portion of any gap shall not exceed 1.27 centimeters (0.5 inch). The seal gap requirements may be exceeded during the measurement of primary seal gaps as indicated in section A.III.1.d below.

2.e There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

II. Operational Restrictions

a. The permittee shall equip this storage vessel with an external floating roof control device equipped with a mechanical shoe primary (lower) seal and a wiper type secondary (upper) seal. If the storage vessel is equipped with only a metallic shoe primary seal as of December 31, 1992, the requirement for a secondary seal does not apply until the next time the storage vessel is emptied or degassed or no later than August 18, 2005, whichever is earlier.

2. The permittee shall ensure that both the primary seal and the secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion, except during internal inspections conducted in accordance with section A.III of these terms and conditions.

3. The permittee shall ensure that the external floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports during the initial fill, after the vessel has been completely emptied and degassed, or when the vessel has been completely emptied before being subsequently refilled.

4. The permittee shall ensure that when the external floating roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as practical.

5. The permittee shall equip all openings in the external floating roof, except automatic bleeder vents, rim space vents, leg sleeves, stub drains, and slotted gauging/sampling wells with a cover, seal, or lid which will remain in the closed position at all times without any visible gaps, except when the opening is in use and a projection into the tank below the liquid surface.

6. The permittee shall ensure that rim space vents are set open only when the external floating roof is not floating and when the pressure beneath the rim seal exceeds the manufacturer's recommended setting.

7. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

8. Any emergency roof drain shall be equipped with a slotted membrane fabric cover or other device which covers at least ninety percent of the area of the opening.

9. Any stub drain shall be equipped with a projection into the tank below the liquid surface.

10. Any slotted gauging/sampling well is equipped with an object which floats on the liquid surface within the well, which closes off the liquid surface from the atmosphere, and which covers at least ninety percent of the area of the well opening. Each unslotted guide pole well shall have a gasketed sliding cover or a flexible fabric sleeve seal. Each one shall have a gasketed cap on the end of the pole which is closed at all times except when gauging the liquid level or taking liquid samples. Each slotted guide pole well shall ahve a gasketed sliding cover or a flexible fabric sleeve seal.

11. All rim space vents and automatic bleeder vents shall be gasketed.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall comply with section A.III.1 unless it is determined that it is unsafe to do so because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel. If compliance with section A.III.1 is deemed unsafe because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with section A.III.2 of these terms and conditions.

    a. The permittee shall perform measurements of gaps between the vessel wall and the primary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every 5 years thereafter.

    b. The permittee shall perform measurements of gaps between the vessel wall and the secondary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every year thereafter.

    c. If the maximum true vapor pressure of the total organic HAPs in the stored liquid falls below the values defining a Group 1 storage vessel as specified in 40 CFR 63.641 for a period of 1 year or more, the permittee shall perform measurements of gaps between the vessel wall and the primary and secondary seals within 90 calendar days of the vessel being refilled.

    d. The permittee shall determine gap widths and gap areas in the primary and secondary seals individually by the procedures described below:

        i. Seal gaps shall be measured at one or more external floating roof levels when the roof is not resting on the roof leg supports;

        ii. Seal gaps shall be measured around the entire circumference of the vessel in each place where a 0.32 centimeter (1/8 inch) diameter uniform probe passes freely (without forcing or binding against the seal) between the seal and the wall of the storage vessel. The circumferential distance of each such location shall also be measured.

e. The total surface area of each gap of this section shall be determined by using probes of various widths to measure accurately the actual distance from the vessel wall to the seal and multiplying each such width by its respective circumferential distance.

f. The permittee shall keep records describing the results of each seal gap measurement made in accordance with this permit. The records shall include the date of the measurement, the raw data obtained in the measurement, and calculations described within section A.III.1 of this permit.

2. If the external floating roof is deemed unsafe because it appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with one of the following:

   a. The permittee shall measure the seal gaps or inspect the storage vessel no later than 30 calendar days after the determination that the roof is unsafe.

   or

   b. The permittee shall empty and remove the storage vessel from service no later than 45 calendar days after determining that the roof is unsafe. If the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

3. The permittee shall repair conditions that do not meet requirements listed within this section of the permit no later than 45 calendar days after identification of such a condition. If during seal gap measurements or during inspections necessary to determine compliance with the terms and conditions of this permit, a failure is detected that cannot be repaired within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

4. The permittee shall visually inspect the external floating roof, the primary seal, secondary seal, and the fittings each time the vessel is emptied and degassed and, at least, annually. The permittee shall inspect for failures as defined at any time:

   a. the external floating roof has defects; or

   b. the primary or secondary seal has holes, tears, or other openings in the seal or seal fabric.

The permittee shall repair the failures described above, as necessary, so that none of the conditions of the failures exist prior to filling or refilling the storage vessel with organic HAP.

5. The permittee shall keep all documentation required by this permit, records showing the dimensions of the storage vessel, and an analysis showing the capacity of the storage vessel in a readily accessible location. The records showing vessel dimensions and an analysis of the vessel's capacity shall be kept as long as the storage vessel retains a Group 1 status and is still in operation.

6. The permittee shall maintain records of the dates and results of any inspections or measurements performed in accordance with OAC rule 3745-21-09(Z)(2)(a) to OAC rule 3745-21-09(Z)(2)(c) and the annual throughput of any petroleum liquid stored in the tank. These records shall be maintained for a period not less than 2 years.

7. The permittee shall maintain records of the types of petroleum liquids stored in this storage vessel and the maximum true vapor pressure (psia), as stored, of each liquid that has a maximum true vapor pressure greater than1.0 pound per square inch, absolute for a period of not less than five years.

IV. Reporting Requirements

1. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition B.2 and supplemented as follows:

   a. <u>Periodic Reports</u>

      The permittee shall submit, as part of the periodic report, documentation of the results of each seal gap measurement made in which the seal gap and seal requirements in these terms and conditions are not met. This documentation shall include the date of the seal gap measurement, the raw data obtained in the seal gap measurement and the calculations described in section A.III.1.d, a description of any seal conditions described in section A.III that have not been met, and a description of the nature of and date of the repair or the date the storage vessel was emptied. If an extension is utilized, the permittee shall, in the next periodic report, identify the vessel, include the documentation specified in section A.III.7 of these terms and conditions, and indicate the date the vessel was emptied and the nature of and date of the repair.

      The permittee shall submit, as part of the periodic report, documentation of any failures that are identified during any inspections required by this permit. The documentation shall meet the specifications and requirements in the paragraph above. Each periodic report shall include the date of the inspection, identification of each storage vessel in which a failure was detected, and a description of the failure. The periodic report shall also describe the nature of and date of the repair.

      These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status

Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton City Health Department, Air Pollution Control Division (Canton LAA) in writing at least 30 calendar days prior to the performance of any gap measurements as required by this permit, or the refilling of this storage vessel following a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the Canton LAA at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing, provided that it is received at least 7 days prior to the refilling.

2. All reports and submittals shall be sent to the Administrator, Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

a. Control Measure:

This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

V. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 532,000-gallon petroleum storage tank identified as tank number 71 (emissions unit T047). It has an external floating roof with a mechanical shoe primary seal and a rim mounted secondary seal. It is classified as a Group 1 storage vessel, pursuant to 40 CFR Part 63, Subpart CC.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(Z)	See section A.I.2.b.

2. Additional Terms and Conditions

2.a This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

2.b The requirements specified in OAC rule 3745-21-09(Z) are as stringent as the requirements specified in 40 CFR Part 63, Subpart CC.

2.c The permittee shall add the gap surface area of each gap location for the primary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the primary seal shall not exceed 212 square centimeters per meter of vessel diameter (10 square inches per foot of vessel diameter) and the width of any portion of any gap shall not exceed 3.81 centimeters (1.5 inches).

2.d The permittee shall add the gap surface area of each gap location for the secondary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the secondary seal shall not exceed 21.1 square centimeters per meter of vessel diameter (1.0 square inch per foot of vessel diameter) and the width of any portion of any gap shall not exceed 1.27 centimeters (0.5 inch). The seal gap requirements may be exceeded during the measurement of primary seal gaps as indicated in section A.III.1.d below.

2.e There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

II. Operational Restrictions

a. The permittee shall equip this storage vessel with an external floating roof control device equipped with a mechanical shoe primary (lower) seal and a wiper type secondary (upper) seal. If the storage vessel is equipped with only a metallic shoe primary seal as of December 31, 1992, the requirement for a secondary seal does not apply until the next time the storage vessel is emptied or degassed or no later than August 18, 2005, whichever is earlier.

2. The permittee shall ensure that both the primary seal and the secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion, except during internal inspections conducted in accordance with section A.III of these terms and conditions.

3. The permittee shall ensure that the external floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports during the initial fill, after the vessel has been completely emptied and degassed, or when the vessel has been completely emptied before being subsequently refilled.

4. The permittee shall ensure that when the external floating roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as practical.

5. The permittee shall equip all openings in the external floating roof, except automatic bleeder vents, rim space vents, leg sleeves, stub drains, and slotted gauging/sampling wells with a cover, seal, or lid which will remain in the closed position at all times without any visible gaps, except when the opening is in use and a projection into the tank below the liquid surface.

6. The permittee shall ensure that rim space vents are set open only when the external floating roof is not floating and when the pressure beneath the rim seal exceeds the manufacturer's recommended setting.

7. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

8. Any emergency roof drain shall be equipped with a slotted membrane fabric cover or other device which covers at least ninety percent of the area of the opening.

9. Any stub drain shall be equipped with a projection into the tank below the liquid surface.

10. Any slotted gauging/sampling well is equipped with an object which floats on the liquid surface within the well, which closes off the liquid surface from the atmosphere, and which covers at least ninety percent of the area of the well opening. Each unslotted guide pole well shall have a gasketed sliding cover or a flexible fabric sleeve seal. Each one shall have a gasketed cap on the end of the pole which is closed at all times except when gauging the liquid level or taking liquid samples. Each slotted guide pole well shall ahve a gasketed sliding cover or a flexible fabric sleeve seal.

11. All rim space vents and automatic bleeder vents shall be gasketed.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall comply with section A.III.1 unless it is determined that it is unsafe to do so because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel. If compliance with section A.III.1 is deemed unsafe because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with section A.III.2 of these terms and conditions.

    a. The permittee shall perform measurements of gaps between the vessel wall and the primary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every 5 years thereafter.

    b. The permittee shall perform measurements of gaps between the vessel wall and the secondary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every year thereafter.

    c. If the maximum true vapor pressure of the total organic HAPs in the stored liquid falls below the values defining a Group 1 storage vessel as specified in 40 CFR 63.641 for a period of 1 year or more, the permittee shall perform measurements of gaps between the vessel wall and the primary and secondary seals within 90 calendar days of the vessel being refilled.

    d. The permittee shall determine gap widths and gap areas in the primary and secondary seals individually by the procedures described below:

i. Seal gaps shall be measured at one or more external floating roof levels when the roof is not resting on the roof leg supports;

ii. Seal gaps shall be measured around the entire circumference of the vessel in each place where a 0.32 centimeter (1/8 inch) diameter uniform probe passes freely (without forcing or binding against the seal) between the seal and the wall of the storage vessel. The circumferential distance of each such location shall also be measured.

e. The total surface area of each gap of this section shall be determined by using probes of various widths to measure accurately the actual distance from the vessel wall to the seal and multiplying each such width by its respective circumferential distance.

f. The permittee shall keep records describing the results of each seal gap measurement made in accordance with this permit. The records shall include the date of the measurement, the raw data obtained in the measurement, and calculations described within section A.III.1 of this permit.

2. If the external floating roof is deemed unsafe because it appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with one of the following:

a. The permittee shall measure the seal gaps or inspect the storage vessel no later than 30 calendar days after the determination that the roof is unsafe.

or

b. The permittee shall empty and remove the storage vessel from service no later than 45 calendar days after determining that the roof is unsafe. If the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

3. The permittee shall repair conditions that do not meet requirements listed within this section of the permit no later than 45 calendar days after identification of such a condition. If during seal gap measurements or during inspections necessary to determine compliance with the terms and conditions of this permit, a failure is detected that cannot be repaired within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal

gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

4. The permittee shall visually inspect the external floating roof, the primary seal, secondary seal, and the fittings each time the vessel is emptied and degassed and, at least, annually. The permittee shall inspect for failures as defined at any time:

   a. the external floating roof has defects; or

   b. the primary or secondary seal has holes, tears, or other openings in the seal or seal fabric.

   The permittee shall repair the failures described above, as necessary, so that none of the conditions of the failures exist prior to filling or refilling the storage vessel with organic HAP.

5. The permittee shall keep all documentation required by this permit, records showing the dimensions of the storage vessel, and an analysis showing the capacity of the storage vessel in a readily accessible location. The records showing vessel dimensions and an analysis of the vessel's capacity shall be kept as long as the storage vessel retains a Group 1 status and is still in operation.

6. The permittee shall maintain records of the dates and results of any inspections or measurements performed in accordance with OAC rule 3745-21-09(Z)(2)(a) to OAC rule 3745-21-09(Z)(2)(c) and the annual throughput of any petroleum liquid stored in the tank. These records shall be maintained for a period not less than 2 years.

7. The permittee shall maintain records of the types of petroleum liquids stored in this storage vessel and the maximum true vapor pressure (psia), as stored, of each liquid that has a maximum true vapor pressure greater than1.0 pound per square inch, absolute for a period of not less than five years.

IV. Reporting Requirements

1. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition B.2 and supplemented as follows:

   a. <u>Periodic Reports</u>

      The permittee shall submit, as part of the periodic report, documentation of the results of each seal gap measurement made in which the seal gap and seal requirements in these terms and conditions are not met. This documentation shall include the date of the seal gap measurement, the raw data obtained in the seal gap measurement and the calculations described in section A.III.1.d, a description of any seal conditions described in section A.III that have not been met,

and a description of the nature of and date of the repair or the date the storage vessel was emptied. If an extension is utilized, the permittee shall, in the next periodic report, identify the vessel, include the documentation specified in section A.III.7 of these terms and conditions, and indicate the date the vessel was emptied and the nature of and date of the repair.

The permittee shall submit, as part of the periodic report, documentation of any failures that are identified during any inspections required by this permit. The documentation shall meet the specifications and requirements in the paragraph above. Each periodic report shall include the date of the inspection, identification of each storage vessel in which a failure was detected, and a description of the failure. The periodic report shall also describe the nature of and date of the repair.

These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton City Health Department, Air Pollution Control Division (Canton LAA) in writing at least 30 calendar days prior to the performance of any gap measurements as required by this permit, or the refilling of this storage vessel following a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the Canton LAA at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing, provided that it is received at least 7 days prior to the refilling.

2. All reports and submittals shall be sent to the Administrator, Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

a. Control Measure:

This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

V. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 532,000-gallon petroleum storage tank identified as tank number 72 (emissions unit T048). It has an external floating roof with a mechanical shoe primary seal and a rim mounted secondary seal. It is classified as a Group 1 storage vessel, pursuant to 40 CFR Part 63, Subpart CC.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(Z)	See section A.I.2.b.

2. Additional Terms and Conditions

2.a This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

2.b The requirements specified in OAC rule 3745-21-09(Z) are as stringent as the requirements specified in 40 CFR Part 63, Subpart CC.

2.c The permittee shall add the gap surface area of each gap location for the primary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the primary seal shall not exceed 212 square centimeters per meter of vessel diameter (10 square inches per foot of vessel diameter) and the width of any portion of any gap shall not exceed 3.81 centimeters (1.5 inches).

2.d The permittee shall add the gap surface area of each gap location for the secondary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between

the vessel wall and the secondary seal shall not exceed 21.1 square centimeters per meter of vessel diameter (1.0 square inch per foot of vessel diameter) and the width of any portion of any gap shall not exceed 1.27 centimeters (0.5 inch). The seal gap requirements may be exceeded during the measurement of primary seal gaps as indicated in section A.III.1.d below.

2.e There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

II. Operational Restrictions

a. The permittee shall equip this storage vessel with an external floating roof control device equipped with a mechanical shoe primary (lower) seal and a wiper type secondary (upper) seal. If the storage vessel is equipped with only a metallic shoe primary seal as of December 31, 1992, the requirement for a secondary seal does not apply until the next time the storage vessel is emptied or degassed or no later than August 18, 2005, whichever is earlier.

2. The permittee shall ensure that both the primary seal and the secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion, except during internal inspections conducted in accordance with section A.III of these terms and conditions.

3. The permittee shall ensure that the external floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports during the initial fill, after the vessel has been completely emptied and degassed, or when the vessel has been completely emptied before being subsequently refilled.

4. The permittee shall ensure that when the external floating roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as practical.

5. The permittee shall equip all openings in the external floating roof, except automatic bleeder vents, rim space vents, leg sleeves, stub drains, and slotted gauging/sampling wells with a cover, seal, or lid which will remain in the closed position at all times without any visible gaps, except when the opening is in use and a projection into the tank below the liquid surface.

6. The permittee shall ensure that rim space vents are set open only when the external floating roof is not floating and when the pressure beneath the rim seal exceeds the manufacturer's recommended setting.

7. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

8. Any emergency roof drain shall be equipped with a slotted membrane fabric cover or other device which covers at least ninety percent of the area of the opening.

9. Any stub drain shall be equipped with a projection into the tank below the liquid surface.

10. Any slotted gauging/sampling well is equipped with an object which floats on the liquid surface within the well, which closes off the liquid surface from the atmosphere, and which covers at least ninety percent of the area of the well opening. Each unslotted guide pole well shall have a gasketed sliding cover or a flexible fabric sleeve seal. Each one shall have a gasketed cap on the end of the pole which is closed at all times except when gauging the liquid level or taking liquid samples. Each slotted guide pole well shall ahve a gasketed sliding cover or a flexible fabric sleeve seal.

11. All rim space vents and automatic bleeder vents shall be gasketed.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall comply with section A.III.1 unless it is determined that it is unsafe to do so because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel. If compliance with section A.III.1 is deemed unsafe because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with section A.III.2 of these terms and conditions.

    a. The permittee shall perform measurements of gaps between the vessel wall and the primary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every 5 years thereafter.

    b. The permittee shall perform measurements of gaps between the vessel wall and the secondary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every year thereafter.

    c. If the maximum true vapor pressure of the total organic HAPs in the stored liquid falls below the values defining a Group 1 storage vessel as specified in 40 CFR 63.641 for a period of 1 year or more, the permittee shall perform measurements of gaps between the vessel wall and the primary and secondary seals within 90 calendar days of the vessel being refilled.

    d. The permittee shall determine gap widths and gap areas in the primary and secondary seals individually by the procedures described below:

        i. Seal gaps shall be measured at one or more external floating roof levels when the roof is not resting on the roof leg supports;

        ii. Seal gaps shall be measured around the entire circumference of the vessel in each place where a 0.32 centimeter (1/8 inch) diameter uniform probe passes freely (without forcing or binding against the seal) between the seal and the wall of the storage vessel. The circumferential distance of each such location shall also be measured.

e. The total surface area of each gap of this section shall be determined by using probes of various widths to measure accurately the actual distance from the vessel wall to the seal and multiplying each such width by its respective circumferential distance.

f. The permittee shall keep records describing the results of each seal gap measurement made in accordance with this permit. The records shall include the date of the measurement, the raw data obtained in the measurement, and calculations described within section A.III.1 of this permit.

2. If the external floating roof is deemed unsafe because it appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with one of the following:

   a. The permittee shall measure the seal gaps or inspect the storage vessel no later than 30 calendar days after the determination that the roof is unsafe.

   or

   b. The permittee shall empty and remove the storage vessel from service no later than 45 calendar days after determining that the roof is unsafe. If the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

3. The permittee shall repair conditions that do not meet requirements listed within this section of the permit no later than 45 calendar days after identification of such a condition. If during seal gap measurements or during inspections necessary to determine compliance with the terms and conditions of this permit, a failure is detected that cannot be repaired within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

4. The permittee shall visually inspect the external floating roof, the primary seal, secondary seal, and the fittings each time the vessel is emptied and degassed and, at least, annually. The permittee shall inspect for failures as defined at any time:

   a. the external floating roof has defects; or

   b. the primary or secondary seal has holes, tears, or other openings in the seal or seal fabric.

The permittee shall repair the failures described above, as necessary, so that none of the conditions of the failures exist prior to filling or refilling the storage vessel with organic HAP.

5. The permittee shall keep all documentation required by this permit, records showing the dimensions of the storage vessel, and an analysis showing the capacity of the storage vessel in a readily accessible location. The records showing vessel dimensions and an analysis of the vessel's capacity shall be kept as long as the storage vessel retains a Group 1 status and is still in operation.

6. The permittee shall maintain records of the dates and results of any inspections or measurements performed in accordance with OAC rule 3745-21-09(Z)(2)(a) to OAC rule 3745-21-09(Z)(2)(c) and the annual throughput of any petroleum liquid stored in the tank. These records shall be maintained for a period not less than 2 years.

7. The permittee shall maintain records of the types of petroleum liquids stored in this storage vessel and the maximum true vapor pressure (psia), as stored, of each liquid that has a maximum true vapor pressure greater than1.0 pound per square inch, absolute for a period of not less than five years.

IV. Reporting Requirements

1. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition B.2 and supplemented as follows:

   a. <u>Periodic Reports</u>

      The permittee shall submit, as part of the periodic report, documentation of the results of each seal gap measurement made in which the seal gap and seal requirements in these terms and conditions are not met. This documentation shall include the date of the seal gap measurement, the raw data obtained in the seal gap measurement and the calculations described in section A.III.1.d, a description of any seal conditions described in section A.III that have not been met, and a description of the nature of and date of the repair or the date the storage vessel was emptied. If an extension is utilized, the permittee shall, in the next periodic report, identify the vessel, include the documentation specified in section A.III.7 of these terms and conditions, and indicate the date the vessel was emptied and the nature of and date of the repair.

      The permittee shall submit, as part of the periodic report, documentation of any failures that are identified during any inspections required by this permit. The documentation shall meet the specifications and requirements in the paragraph above. Each periodic report shall include the date of the inspection, identification of each storage vessel in which a failure was detected, and a description of the failure. The periodic report shall also describe the nature of and date of the repair.

      These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status

Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton City Health Department, Air Pollution Control Division (Canton LAA) in writing at least 30 calendar days prior to the performance of any gap measurements as required by this permit, or the refilling of this storage vessel following a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the Canton LAA at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing, provided that it is received at least 7 days prior to the refilling.

2. All reports and submittals shall be sent to the Administrator, Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

a. Control Measure:

This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

V. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 624,000-gallon Group 1 storage tank for the storage of petroleum liquids. The tank is identified as tank number 120 (emissions unit T049). It employs an internal floating roof with a vapor type primary seal and a wiper type secondary seal.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(L)	The requirements of this applicable rule are less stringent than the requirements specified in 40 CFR Part 63, Subpart CC.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof, a vapor type primary seal, and a wiper type secondary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

a. The internal floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports after the vessel has been completely emptied and degassed or when the vessel is completely emptied before being subsequently refilled.

2. The filling, refilling, or emptying of the vessel shall be continuous and shall be accomplished as soon as practical when the floating roof is resting on the leg supports.

3. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid. The cover or lid shall be equipped with a gasket. All tank covers and lids shall remain closed except

when the cover or lid must be open for access. Covers on each access hatch and each gauge float well shall be bolted or fastened so as to be air-tight when they are closed.

4. Each penetration of the internal floating roof for the purposes of sampling shall be a sample well. Each sample well shall have a slit fabric cover that covers at least 90% of the opening.

5. Each penetration of the internal floating roof that allows for passage of a ladder or the support column for the fixed roof shall have a gasketed sliding cover.

6. Rim space vents are set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Each rim space vent shall be gasketed.

7. Automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Each automatic bleeder vent shall be gasketed.

8. The seals of a dual seal system are mounted one above the other with the vapor-mounted seal being the lower seal. The combination of the two seals shall form a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. If the vapor mounted seal is installed as of December 31, 1992, the requirement that one of the seals specified in 40 CFR Parts 63.119(b)(3) thru 63.119(b)(3)iii be utilized does not apply until either the next time the vessel is emptied and degassed or no later than August 18, 2005, whichever comes first.

9. There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections and maintain records of those inspection for this emissions unit:

   a. Visually inspect the internal floating roof and primary seal through manholes and roof hatches at least once every 12 months following the compliance date or once every 12 months after the initial fill (ie, annual inspection). The permittee shall repair any items found as a result of the inspections required in section A.III.2 below or empty and remove the storage vessel from service within 45 calendar days.

   b. Visually inspect the internal floating roof and seal each time the storage vessel is emptied and degassed and at least once every 10 years after the compliance date (ie, internal inspection). If, during an inspection, the permittee finds any of the conditions indicated in section A.III.2 below, the condition shall be corrected prior to refilling the storage vessel.

2. During the visual inspections, the permittee shall inspect, at a minimum, for the following control equipment failures:

a. whether the internal roof is resting on the liquid surface inside the tank and is not resting on the leg supports;

b. if there is liquid on the floating roof or if the internal floating roof has defects;

c. if the seal is detached or has holes or tears in the seal fabric; and

d. if there are visible gaps between the seal and the wall of the storage vessel.

3. The permittee shall retain records of each inspection performed on this emissions unit . These records shall include the date of the inspection, identification of the storage vessel, description of each failure, the nature and date of repair or date the vessel was emptied if the failure is to be repaired in 45 calendar days from discovery. If a failure cannot be repaired and if the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 calendar days each. The permittee shall document the decision to utilize an extension. This documentation shall include a description of the failure, that alternative storage is unavailable and a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. This documentation shall be kept in a readily accessible location.

4. All records shall be retained for at least 5 years, unless otherwise indicated within this section, in such a manner that they can be readily accessed within 24 hrs.

5. The permittee shall maintain records of the type of petroleum liquid stored in the vessel, the maximum true vapor pressure of the liquid stored in the vessel, the vessel's group determination, the vessel's dimensions, and an analysis showing the capacity of the vessel. This record shall be kept as long as the storage vessel retains Group 1 status and is in operation.

IV. Reporting Requirements

2. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition A.1:

a. <u>Periodic Reports</u>

The permittee shall submit a periodic report when the emissions unit experiences a failure as indicated in section A.III.2 of these terms and conditions. The reports shall contain the results of each inspection in which a failure was detected and repaired within 45 calendar days and the date of the inspection, identification of the storage vessel, the description of the failure, and the nature and date of repair or the date the vessel was emptied. If an extension is utilized as discussed in section A.III.3 of these terms and conditions, the permittee shall, in the next periodic report, identify the vessel, include the documentation identified above, and indicate the date the storage vessel was emptied and the nature of and date of the repair. These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status Report is

required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton local air agency at least 30 calendar days prior to the refilling of this storage vessel or a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the Canton local air agency at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing provided that it is received at least 7 days prior to the refilling.

2. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 1 storage vessel to a Group 2 storage vessel. All deviation (excursion) reports shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

3. All reports and submittals shall be sent to the Administrator, City of Canton Health Department, Division of Air Pollution Control, 420 Market Ave., N, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

Control Measures:

The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof, a vapor type primary seal, and a wiper type secondary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

VI. Miscellaneous Requirements

Emissions Unit ID: T049

1. This emissions unit is a "new source," as defined in OAC rule 3745-31-01, that has not obtained a permit to install in accordance with OAC rule 3745-31-02. The permittee installed this emissions unit in 1974 without first applying for and obtaining a permit to install (PTI), in violation of OAC rule 3745-31-02. As the initial step to allow this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application within 60 days after issuance of this permit.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 975,000-gallon Group 1 storage tank for the storage of petroleum liquids. The tank is identified as tank number 119 (emissions unit T050). It employs an internal floating roof with a vapor type primary seal and a wiper type secondary seal.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(L)	The requirements of this applicable rule are less stringent than the requirements specified in 40 CFR Part 63, Subpart CC.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof, a vapor type primary seal, and a wiper type secondary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

c. The internal floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports after the vessel has been completely emptied and degassed or when the vessel is completely emptied before being subsequently refilled.

2. The filling, refilling, or emptying of the vessel shall be continuous and shall be accomplished as soon as practical when the floating roof is resting on the leg supports.

3. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid. The cover or lid shall be equipped with a gasket. All tank covers and lids shall remain closed except

when the cover or lid must be open for access. Covers on each access hatch and each gauge float well shall be bolted or fastened so as to be air-tight when they are closed.

4. Each penetration of the internal floating roof for the purposes of sampling shall be a sample well. Each sample well shall have a slit fabric cover that covers at least 90% of the opening.

5. Each penetration of the internal floating roof that allows for passage of a ladder or the support column for the fixed roof shall have a gasketed sliding cover.

6. Rim space vents are set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Each rim space vent shall be gasketed.

7. Automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Each automatic bleeder vent shall be gasketed.

8. The seals of a dual seal system are mounted one above the other with the vapor-mounted seal being the lower seal. The combination of the two seals shall form a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. If the vapor mounted seal is installed as of December 31, 1992, the requirement that one of the seals specified in 40 CFR Parts 63.119(b)(3) thru 63.119(b)(3)iii be utilized does not apply until either the next time the vessel is emptied and degassed or no later than August 18, 2005, whichever comes first.

9. There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections and maintain records of those inspection for this emissions unit:

   a. Visually inspect the internal floating roof and primary seal through manholes and roof hatches at least once every 12 months following the compliance date or once every 12 months after the initial fill (ie, annual inspection). The permittee shall repair any items found as a result of the inspections required in section A.III.2 below or empty and remove the storage vessel from service within 45 calendar days.

   b. Visually inspect the internal floating roof and seal each time the storage vessel is emptied and degassed and at least once every 10 years after the compliance date (ie, internal inspection). If, during an inspection, the permittee finds any of the conditions indicated in section A.III.2 below, the condition shall be corrected prior to refilling the storage vessel.

2. During the visual inspections, the permittee shall inspect, at a minimum, for the following control equipment failures:

a. whether the internal roof is resting on the liquid surface inside the tank and is not resting on the leg supports;

b. if there is liquid on the floating roof or if the internal floating roof has defects;

c. if the seal is detached or has holes or tears in the seal fabric; and

d. if there are visible gaps between the seal and the wall of the storage vessel.

3. The permittee shall retain records of each inspection performed on this emissions unit . These records shall include the date of the inspection, identification of the storage vessel, description of each failure, the nature and date of repair or date the vessel was emptied if the failure is to be repaired in 45 calendar days from discovery. If a failure cannot be repaired and if the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 calendar days each. The permittee shall document the decision to utilize an extension. This documentation shall include a description of the failure, that alternative storage is unavailable and a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. This documentation shall be kept in a readily accessible location.

4. All records shall be retained for at least 5 years, unless otherwise indicated within this section, in such a manner that they can be readily accessed within 24 hrs.

5. The permittee shall maintain records of the type of petroleum liquid stored in the vessel, the maximum true vapor pressure of the liquid stored in the vessel, the vessel's group determination, the vessel's dimensions, and an analysis showing the capacity of the vessel. This record shall be kept as long as the storage vessel retains Group 1 status and is in operation.

IV. Reporting Requirements

4. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition A.1:

a. <u>Periodic Reports</u>

The permittee shall submit a periodic report when the emissions unit experiences a failure as indicated in section A.III.2 of these terms and conditions. The reports shall contain the results of each inspection in which a failure was detected and repaired within 45 calendar days and the date of the inspection, identification of the storage vessel, the description of the failure, and the nature and date of repair or the date the vessel was emptied. If an extension is utilized as discussed in section A.III.3 of these terms and conditions, the permittee shall, in the next periodic report, identify the vessel, include the documentation identified above, and indicate the date the storage vessel was emptied and the nature of and date of the repair. These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status Report is

required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton local air agency at least 30 calendar days prior to the refilling of this storage vessel or a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the Canton local air agency at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing provided that it is received at least 7 days prior to the refilling.

2. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 1 storage vessel to a Group 2 storage vessel. All deviation (excursion) reports shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

3. All reports and submittals shall be sent to the Administrator, City of Canton Health Department, Division of Air Pollution Control, 420 Market Ave., N, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

Control Measures:

The permittee shall operate this emissions unit as a Group 1 storage vessel by employing an internal floating roof, a vapor type primary seal, and a wiper type secondary seal to control VOC emissions. The terms and conditions of this permit reflect Group 1 storage vessel operating, monitoring, record keeping, and reporting requirements.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

VI. Miscellaneous Requirements

Emissions Unit ID: T050

1. This emissions unit is a "new source," as defined in OAC rule 3745-31-01, that has not obtained a permit to install in accordance with OAC rule 3745-31-02. The permittee installed this emissions unit in 1974 without first applying for and obtaining a permit to install (PTI), in violation of OAC rule 3745-31-02. As the initial step to allow this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application within 60 days after issuance of this permit.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 840,000-gallon fixed roof storage vessel for the storage of petroleum liquids with a maximum true vapor pressure of less than 11 psia. This storage vessel is identified as tank number 239 (emissions unit T051) and is equipped with a submerged fill line and an internal floating roof.	40 CFR Part 60, Subpart Kb	See section A.I.2.a.
	OAC rule 3745-31-05(A)(3) (PTI 15-0354)	1.9 tpy of volatile organic compounds (VOC)
		See section A.I.2.b.
	OAC rule 3745-21-09(L)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a In accordance with 40 CFR Part 60.112b(a)(1)(ii), the permittee shall employ an internal floating roof equipped with metallic shoe seals to control the emissions of VOC from this emissions unit as specified in these terms and conditions. The metallic shoe seal shall extend between the wall of the storage vessel and the edge of the internal floating roof. A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric spans the annular space between the metal sheet and the floating roof.

2.b The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart CC and OAC rule 3745-21-09(L).

2.c The requirements of this applicable rule are less stringent than the requirements specified in 40 CFR Part 60, Subpart Kb.

2.d This storage vessel shall only be used for the storage of petroleum liquids with a maximum true vapor pressure of less than 11 psia.

II. Operational Restrictions

c. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel having a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

2. The internal floating roof shall be equipped with a closure device between the wall of the storage vessel and the edge of the internal floating roof. The closure device shall consist of a metallic shoe seal so that there is a continuous closure completely covering the space between the wall of the storage vessel and the edge of the internal floating roof. The mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the internal floating roof.

3. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and the rim space vents, is to provide a projection below the liquid surface.

4. Each opening in the internal floating roof except for the leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap), except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted, except when they are in use.

5. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

6. Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended settings.

7. Each penetration of the internal floating roof used for sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.

8. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

9. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections of the internal floating roof and its seals:

   a. Visually inspect the internal floating roof, the primary seal, and the secondary seal (if present) prior to filling the storage vessel with volatile liquids. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the permittee shall repair the items before filling the storage vessel.

   b. Visually inspect the vessel according to section A.III.1.c at least every 5 years or according to section A.III.1.d.

   c. Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If any of the following conditions are found as the result of the inspection, the permittee shall repair the item(s) as necessary prior to refilling the storage vessel:

      i. defects in the internal floating roof;
      ii. holes, tears, or other openings in the seal or the seal fabric of the primary and secondary seals (if one is in service);
      iii. gaskets that no longer closed off the liquid surface to the atmosphere; and
      iv. the slotted membrane has more than 10% open area.

   d. Visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the liquid or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the permittee shall repair the items or empty and remove the vessel from service within 45 days. If a failure that is detected during the required initial inspections cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the administrator in the inspection report. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the permittee will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

2. In no event shall annual inspections, as specified in section A.III.1.d, occur at intervals greater than 10 years. In no event shall inspections, as specified in section A.III.1.c., occur at intervals no greater than 5 years.

3. The permittee shall keep a record of each inspection performed in accordance with section A.III. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

4. The permittee shall maintain a record of the volatile organic liquid stored, the period of storage, and the maximum true vapor pressure of that volatile organic liquid during the respective storage period.

Available data on the storage temperature may be used to determine the maximum true vapor pressure in accordance with the methods and procedure defined in 40 CFR Part 60.116b(e).

5. The permittee shall keep readily accessible records showing the dimensions of the storage vessel, an analysis showing the dimensions of the storage vessel, and an analysis showing the capacity of the storage vessel.

6. The permittee shall maintain records of the actual annual throughput(s) (in either gallons/year or barrels/year) for this emissions unit.

7. The permittee shall calculate and maintain records of the annual VOC emissions from this emissions unit. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions of VOC by using the emissions estimation methodologies provided in the most current version of AP-42, section 5.1 " Transportation of Petroleum Liquids" or the most recent version of USEPA's TANKS computer program.

IV. Reporting Requirements

1. The permittee shall notify the Canton local air agency in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by section A.III.1.a or A.III.1.c to afford the agency the opportunity to have an observer present. If the inspection required by section A.III.1.c is not planned and the permittee could not have known about the inspection 30 days in advance of refilling the tank, the permittee shall notify the Canton local air agency at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Canton local air agency at least 7 days prior to the refilling.

2. The permittee shall report to the Canton local air agency any conditions described in section A.III.1.d that are detected during any annual inspection within 30 days of the inspection. Each report shall identify the storage vessel, the nature of any defects in the internal floating roof including holes or tears in the seal fabric, the date the storage vessel was emptied, and the nature of and the date of the repair. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR Part 61.112b(a)(1) or 40 CFR Part 60.113b(a)(3) and list each repair made.

3. If the permittee exceeds the annual emission rate noted in section A.I.1, the permittee shall submit a written report of this exceedance to the Canton local air agency within 30 days of the exceedance. The exceedance report shall identify the actual throughput(s) for the calendar year of concern and shall include the calculations of the VOC emissions. A report is required only if an exceedance occurs.

4. All deviation (excursion) reports shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

5. The permittee shall submit deviation (excursion) reports that identify each time when this storage vessel is used to store a volatile organic liquid with a maximum true vapor pressure greater than or equal to 11 psia.

V. Testing Requirements

1. Compliance with the emission control measures in section A.I.2.a shall be determined in accordance with the following method:

   a. Control Measures:

      The permittee shall utilize an internal floating roof equipped with seals as defined in 40 CFR Part 60.112b(a)(1)(ii) to control the emissions of VOC from this emissions unit.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.

   b. Emission Limitation:

      1.9 tpy of VOC

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.7.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,000,000-gallon number 6 fuel oil fixed roof storage vessel identified as tank number 22 (emissions unit T052). It is also equipped with a submerged fill line.	40 CFR Part 60, Subpart Kb	See sections A.I.2.a and A.II.3.
	OAC rule 3745-21-09(L)	exempt
		See section A.II.1.
	OAC rule 3745-31-05(A)(3) (PTI 15-0362)	See sections A.I.2.b and A.II.2.

2. Additional Terms and Conditions

2.a In accordance with 40 CFR Part 60.110b(c), the requirements of 40 CFR Part 60, Subpart Kb shall be satisfied by maintaining the record keeping requirements specified in 40 CFR Part 60.116b(a) and (b).

2.b The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

a. This emissions unit is exempt from the terms and conditions of OAC rule 3745-21-09(L) as long as the permittee stores organic liquid material with a maximum true vapor pressure less than 1.52 psia.

2. The permittee shall employ a submerged fill line on this storage vessel.

III. The permittee shall store only organic liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records showing the type of material stored within the storage vessel, the dimensions of the storage vessel, the true vapor pressure of the stored material at maximum storage temperature, and an analysis showing the capacity of the storage vessel.

2. All records shall be retained for as long as the storage vessel remains in operation. Records shall be maintained in a manner that they can be readily accessed. Records may be maintained in a hard copy format or in a computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each time an organic liquid material with a maximum true vapor pressure equal to or greater than 3.5 KPa (0.5 psia) is stored in this storage vessel. The deviation reports shall be submitted to the Canton local air agency within 30 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission control measure in section A.II.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Control Measure:

      The permittee shall store only organic liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 848,190-gallon fixed roof storage vessel identified as emissions unit T053 which is used to store organic liquids with a maximum true vapor pressure less than 1.5 psia. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true

vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 85,596-gallon fixed roof storage vessel identified as tank number 34(emissions unit T054) which is used to store organic liquids with a maximum true vapor pressure less than 1.5 psia. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true

vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 85,596-gallon fixed roof storage vessel identified as tank number 35(emissions unit T055) which is used to store organic liquids with a maximum true vapor pressure less than 1.5 psia. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true

vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 2,743,104-gallon fixed roof storage vessel identified as tank number 47(emissions unit T056) which is used to store organic liquids with a maximum true vapor pressure less than 1.5 psia. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true

vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 2,283,288-gallon fixed roof storage vessel identified as tank number 55(emissions unit T057) which is used to store organic liquids with a maximum true vapor pressure less than 1.5 psia. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true

vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 2,276,400-gallon fixed roof storage vessel identified as tank number 128(emissions unit T059) which is used to store organic liquids with a maximum true vapor pressure less than 1.5 psia. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true

vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 500,000-gallon fixed roof storage vessel identified as tank number 37(emissions unit T061) which is used to store organic liquids with a maximum true vapor pressure less than 1.5 psia. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true

vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 425,418-gallon fixed roof storage vessel identified as tank number 43(emissions unit T062) which is used to store kerosene and distillate. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

VI. Miscellaneous Requirements

Emissions Unit ID: T062

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,616,454-gallon fixed roof storage vessel identified as tank number 46(emissions unit T063) which is used to store kerosene and distillate. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

VI. Miscellaneous Requirements

Emissions Unit ID: T063

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 624,620-gallon fixed roof storage vessel identified as tank number 64(emissions unit T064) which is used to store kerosene and distillate. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

VI. Miscellaneous Requirements

Emissions Unit ID: T064

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,250,000-gallon petroleum storage tank identified as tank number 69 (emissions unit T065). It has an external floating roof with a mechanical shoe primary seal and a rim mounted secondary seal. It is classified as a Group 1 storage vessel, pursuant to 40 CFR Part 63, Subpart CC.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(Z)	See section A.I.2.b.

2. Additional Terms and Conditions

2.a This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

2.b The requirements specified in OAC rule 3745-21-09(Z) are as stringent as the requirements specified in 40 CFR Part 63, Subpart CC.

2.c The permittee shall add the gap surface area of each gap location for the primary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the primary seal shall not exceed 212 square centimeters per meter of vessel diameter (10 square inches per foot of vessel diameter) and the width of any portion of any gap shall not exceed 3.81 centimeters (1.5 inches).

2.d The permittee shall add the gap surface area of each gap location for the secondary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between

the vessel wall and the secondary seal shall not exceed 21.1 square centimeters per meter of vessel diameter (1.0 square inch per foot of vessel diameter) and the width of any portion of any gap shall not exceed 1.27 centimeters (0.5 inch). The seal gap requirements may be exceeded during the measurement of primary seal gaps as indicated in section A.III.1.d below.

2.e There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

II. Operational Restrictions

a. The permittee shall equip this storage vessel with an external floating roof control device equipped with a mechanical shoe primary (lower) seal and a wiper type secondary (upper) seal. If the storage vessel is equipped with only a metallic shoe primary seal as of December 31, 1992, the requirement for a secondary seal does not apply until the next time the storage vessel is emptied or degassed or no later than August 18, 2005, whichever is earlier.

2. The permittee shall ensure that both the primary seal and the secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion, except during internal inspections conducted in accordance with section A.III of these terms and conditions.

3. The permittee shall ensure that the external floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports during the initial fill, after the vessel has been completely emptied and degassed, or when the vessel has been completely emptied before being subsequently refilled.

4. The permittee shall ensure that when the external floating roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as practical.

5. The permittee shall equip all openings in the external floating roof, except automatic bleeder vents, rim space vents, leg sleeves, stub drains, and slotted gauging/sampling wells with a cover, seal, or lid which will remain in the closed position at all times without any visible gaps, except when the opening is in use and a projection into the tank below the liquid surface.

6. The permittee shall ensure that rim space vents are set open only when the external floating roof is not floating and when the pressure beneath the rim seal exceeds the manufacturer's recommended setting.

7. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

8. Any emergency roof drain shall be equipped with a slotted membrane fabric cover or other device which covers at least ninety percent of the area of the opening.

9. Any stub drain shall be equipped with a projection into the tank below the liquid surface.

10. Any slotted gauging/sampling well is equipped with an object which floats on the liquid surface within the well, which closes off the liquid surface from the atmosphere, and which covers at least ninety percent of the area of the well opening. Each unslotted guide pole well shall have a gasketed sliding cover or a flexible fabric sleeve seal. Each one shall have a gasketed cap on the end of the pole which is closed at all times except when gauging the liquid level or taking liquid samples. Each slotted guide pole well shall ahve a gasketed sliding cover or a flexible fabric sleeve seal.

11. All rim space vents and automatic bleeder vents shall be gasketed.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall comply with section A.III.1 unless it is determined that it is unsafe to do so because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel. If compliance with section A.III.1 is deemed unsafe because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with section A.III.2 of these terms and conditions.

    a. The permittee shall perform measurements of gaps between the vessel wall and the primary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every 5 years thereafter.

    b. The permittee shall perform measurements of gaps between the vessel wall and the secondary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every year thereafter.

    c. If the maximum true vapor pressure of the total organic HAPs in the stored liquid falls below the values defining a Group 1 storage vessel as specified in 40 CFR 63.641 for a period of 1 year or more, the permittee shall perform measurements of gaps between the vessel wall and the primary and secondary seals within 90 calendar days of the vessel being refilled.

    d. The permittee shall determine gap widths and gap areas in the primary and secondary seals individually by the procedures described below:

        i. Seal gaps shall be measured at one or more external floating roof levels when the roof is not resting on the roof leg supports;

        ii. Seal gaps shall be measured around the entire circumference of the vessel in each place where a 0.32 centimeter (1/8 inch) diameter uniform probe passes freely (without forcing or binding against the seal) between the seal and the wall of the storage vessel. The circumferential distance of each such location shall also be measured.

e. The total surface area of each gap of this section shall be determined by using probes of various widths to measure accurately the actual distance from the vessel wall to the seal and multiplying each such width by its respective circumferential distance.

f. The permittee shall keep records describing the results of each seal gap measurement made in accordance with this permit. The records shall include the date of the measurement, the raw data obtained in the measurement, and calculations described within section A.III.1 of this permit.

2. If the external floating roof is deemed unsafe because it appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with one of the following:

   a. The permittee shall measure the seal gaps or inspect the storage vessel no later than 30 calendar days after the determination that the roof is unsafe.

   or

   b. The permittee shall empty and remove the storage vessel from service no later than 45 calendar days after determining that the roof is unsafe. If the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

3. The permittee shall repair conditions that do not meet requirements listed within this section of the permit no later than 45 calendar days after identification of such a condition. If during seal gap measurements or during inspections necessary to determine compliance with the terms and conditions of this permit, a failure is detected that cannot be repaired within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

4. The permittee shall visually inspect the external floating roof, the primary seal, secondary seal, and the fittings each time the vessel is emptied and degassed and, at least, annually. The permittee shall inspect for failures as defined at any time:

   a. the external floating roof has defects; or

   b. the primary or secondary seal has holes, tears, or other openings in the seal or seal fabric.

The permittee shall repair the failures described above, as necessary, so that none of the conditions of the failures exist prior to filling or refilling the storage vessel with organic HAP.

5. The permittee shall keep all documentation required by this permit, records showing the dimensions of the storage vessel, and an analysis showing the capacity of the storage vessel in a readily accessible location. The records showing vessel dimensions and an analysis of the vessel's capacity shall be kept as long as the storage vessel retains a Group 1 status and is still in operation.

6. The permittee shall maintain records of the dates and results of any inspections or measurements performed in accordance with OAC rule 3745-21-09(Z)(2)(a) to OAC rule 3745-21-09(Z)(2)(c) and the annual throughput of any petroleum liquid stored in the tank. These records shall be maintained for a period not less than 2 years.

7. The permittee shall maintain records of the types of petroleum liquids stored in this storage vessel and the maximum true vapor pressure (psia), as stored, of each liquid that has a maximum true vapor pressure greater than1.0 pound per square inch, absolute for a period of not less than five years.

IV. Reporting Requirements

1. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition B.2 and supplemented as follows:

   a. <u>Periodic Reports</u>

   The permittee shall submit, as part of the periodic report, documentation of the results of each seal gap measurement made in which the seal gap and seal requirements in these terms and conditions are not met. This documentation shall include the date of the seal gap measurement, the raw data obtained in the seal gap measurement and the calculations described in section A.III.1.d, a description of any seal conditions described in section A.III that have not been met, and a description of the nature of and date of the repair or the date the storage vessel was emptied. If an extension is utilized, the permittee shall, in the next periodic report, identify the vessel, include the documentation specified in section A.III.7 of these terms and conditions, and indicate the date the vessel was emptied and the nature of and date of the repair.

   The permittee shall submit, as part of the periodic report, documentation of any failures that are identified during any inspections required by this permit. The documentation shall meet the specifications and requirements in the paragraph above. Each periodic report shall include the date of the inspection, identification of each storage vessel in which a failure was detected, and a description of the failure. The periodic report shall also describe the nature of and date of the repair.

   These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status

Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton City Health Department, Air Pollution Control Division (Canton LAA) in writing at least 30 calendar days prior to the performance of any gap measurements as required by this permit, or the refilling of this storage vessel following a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the Canton LAA at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing, provided that it is received at least 7 days prior to the refilling.

2. All reports and submittals shall be sent to the Administrator, Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

a. Control Measure:

This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

V. 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 534,000-gallon petroleum storage tank identified as tank number 73 (emissions unit T067). It has an external floating roof with a mechanical shoe primary seal and a rim mounted secondary seal. It is classified as a Group 1 storage vessel, pursuant to 40 CFR Part 63, Subpart CC.	40 CFR Part 63, Subpart CC (MACT)	See section A.I.2.a.
	OAC rule 3745-21-09(Z)	See section A.I.2.b.

2. Additional Terms and Conditions

2.a This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

2.b The requirements specified in OAC rule 3745-21-09(Z) are as stringent as the requirements specified in 40 CFR Part 63, Subpart CC.

2.c The permittee shall add the gap surface area of each gap location for the primary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the primary seal shall not exceed 212 square centimeters per meter of vessel diameter (10 square inches per foot of vessel diameter) and the width of any portion of any gap shall not exceed 3.81 centimeters (1.5 inches).

2.d The permittee shall add the gap surface area of each gap location for the secondary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between

the vessel wall and the secondary seal shall not exceed 21.1 square centimeters per meter of vessel diameter (1.0 square inch per foot of vessel diameter) and the width of any portion of any gap shall not exceed 1.27 centimeters (0.5 inch). The seal gap requirements may be exceeded during the measurement of primary seal gaps as indicated in section A.III.1.d below.

2.e There shall be no tears, holes, or other openings in the shoe, seal fabric, or seal envelope of either the primary or secondary seal.

II. Operational Restrictions

a. The permittee shall equip this storage vessel with an external floating roof control device equipped with a mechanical shoe primary (lower) seal and a wiper type secondary (upper) seal. If the storage vessel is equipped with only a metallic shoe primary seal as of December 31, 1992, the requirement for a secondary seal does not apply until the next time the storage vessel is emptied or degassed or no later than August 18, 2005, whichever is earlier.

2. The permittee shall ensure that both the primary seal and the secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion, except during internal inspections conducted in accordance with section A.III of these terms and conditions.

3. The permittee shall ensure that the external floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports during the initial fill, after the vessel has been completely emptied and degassed, or when the vessel has been completely emptied before being subsequently refilled.

4. The permittee shall ensure that when the external floating roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as practical.

5. The permittee shall equip all openings in the external floating roof, except automatic bleeder vents, rim space vents, leg sleeves, stub drains, and slotted gauging/sampling wells with a cover, seal, or lid which will remain in the closed position at all times without any visible gaps, except when the opening is in use and a projection into the tank below the liquid surface.

6. The permittee shall ensure that rim space vents are set open only when the external floating roof is not floating and when the pressure beneath the rim seal exceeds the manufacturer's recommended setting.

7. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

8. Any emergency roof drain shall be equipped with a slotted membrane fabric cover or other device which covers at least ninety percent of the area of the opening.

9. Any stub drain shall be equipped with a projection into the tank below the liquid surface.

10. Any slotted gauging/sampling well is equipped with an object which floats on the liquid surface within the well, which closes off the liquid surface from the atmosphere, and which covers at least ninety percent of the area of the well opening. Each unslotted guide pole well shall have a gasketed sliding cover or a flexible fabric sleeve seal. Each one shall have a gasketed cap on the end of the pole which is closed at all times except when gauging the liquid level or taking liquid samples. Each slotted guide pole well shall ahve a gasketed sliding cover or a flexible fabric sleeve seal.

11. All rim space vents and automatic bleeder vents shall be gasketed.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall comply with section A.III.1 unless it is determined that it is unsafe to do so because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel. If compliance with section A.III.1 is deemed unsafe because the external floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with section A.III.2 of these terms and conditions.

    a. The permittee shall perform measurements of gaps between the vessel wall and the primary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every 5 years thereafter.

    b. The permittee shall perform measurements of gaps between the vessel wall and the secondary seal during the hydrostatic testing of the vessel or by the compliance date, whichever occurs last, and at least once every year thereafter.

    c. If the maximum true vapor pressure of the total organic HAPs in the stored liquid falls below the values defining a Group 1 storage vessel as specified in 40 CFR 63.641 for a period of 1 year or more, the permittee shall perform measurements of gaps between the vessel wall and the primary and secondary seals within 90 calendar days of the vessel being refilled.

    d. The permittee shall determine gap widths and gap areas in the primary and secondary seals individually by the procedures described below:

        i. Seal gaps shall be measured at one or more external floating roof levels when the roof is not resting on the roof leg supports;

        ii. Seal gaps shall be measured around the entire circumference of the vessel in each place where a 0.32 centimeter (1/8 inch) diameter uniform probe passes freely (without forcing or binding against the seal) between the seal and the wall of the storage vessel. The circumferential distance of each such location shall also be measured.

e. The total surface area of each gap of this section shall be determined by using probes of various widths to measure accurately the actual distance from the vessel wall to the seal and multiplying each such width by its respective circumferential distance.

f. The permittee shall keep records describing the results of each seal gap measurement made in accordance with this permit. The records shall include the date of the measurement, the raw data obtained in the measurement, and calculations described within section A.III.1 of this permit.

2. If the external floating roof is deemed unsafe because it appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with one of the following:

   a. The permittee shall measure the seal gaps or inspect the storage vessel no later than 30 calendar days after the determination that the roof is unsafe.

   or

   b. The permittee shall empty and remove the storage vessel from service no later than 45 calendar days after determining that the roof is unsafe. If the vessel cannot be emptied within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

3. The permittee shall repair conditions that do not meet requirements listed within this section of the permit no later than 45 calendar days after identification of such a condition. If during seal gap measurements or during inspections necessary to determine compliance with the terms and conditions of this permit, a failure is detected that cannot be repaired within 45 calendar days, the permittee may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the vessel will be emptied as soon as practical. The permittee shall keep, in a readily accessible location, the documentation discussed above.

4. The permittee shall visually inspect the external floating roof, the primary seal, secondary seal, and the fittings each time the vessel is emptied and degassed and, at least, annually. The permittee shall inspect for failures as defined at any time:

   a. the external floating roof has defects; or

   b. the primary or secondary seal has holes, tears, or other openings in the seal or seal fabric.

The permittee shall repair the failures described above, as necessary, so that none of the conditions of the failures exist prior to filling or refilling the storage vessel with organic HAP.

5. The permittee shall keep all documentation required by this permit, records showing the dimensions of the storage vessel, and an analysis showing the capacity of the storage vessel in a readily accessible location. The records showing vessel dimensions and an analysis of the vessel's capacity shall be kept as long as the storage vessel retains a Group 1 status and is still in operation.

6. The permittee shall maintain records of the dates and results of any inspections or measurements performed in accordance with OAC rule 3745-21-09(Z)(2)(a) to OAC rule 3745-21-09(Z)(2)(c) and the annual throughput of any petroleum liquid stored in the tank. These records shall be maintained for a period not less than 2 years.

7. The permittee shall maintain records of the types of petroleum liquids stored in this storage vessel and the maximum true vapor pressure (psia), as stored, of each liquid that has a maximum true vapor pressure greater than1.0 pound per square inch, absolute for a period of not less than five years.

IV. Reporting Requirements

1. The permittee shall submit the following reports required in accordance with Part I - General Term and Condition B.2 and supplemented as follows:

   a. <u>Periodic Reports</u>

      The permittee shall submit, as part of the periodic report, documentation of the results of each seal gap measurement made in which the seal gap and seal requirements in these terms and conditions are not met. This documentation shall include the date of the seal gap measurement, the raw data obtained in the seal gap measurement and the calculations described in section A.III.1.d, a description of any seal conditions described in section A.III that have not been met, and a description of the nature of and date of the repair or the date the storage vessel was emptied. If an extension is utilized, the permittee shall, in the next periodic report, identify the vessel, include the documentation specified in section A.III.7 of these terms and conditions, and indicate the date the vessel was emptied and the nature of and date of the repair.

      The permittee shall submit, as part of the periodic report, documentation of any failures that are identified during any inspections required by this permit. The documentation shall meet the specifications and requirements in the paragraph above. Each periodic report shall include the date of the inspection, identification of each storage vessel in which a failure was detected, and a description of the failure. The periodic report shall also describe the nature of and date of the repair.

      These reports shall be submitted within 60 days after the end of the current 6-month reporting period. The first 6-month period shall begin on the date the Notification of Compliance Status

Report is required to be submitted. The permittee may submit reports required by other regulations as part of a periodic report.

b. Internal Inspection Notification

The permittee shall notify the Canton City Health Department, Air Pollution Control Division (Canton LAA) in writing at least 30 calendar days prior to the performance of any gap measurements as required by this permit, or the refilling of this storage vessel following a scheduled internal inspection as required by 40 CFR 63.120(b)(10) to afford an opportunity to have a representative present to observe the activity. If the internal inspection is not planned and/or the permittee could not have known about the inspection 30 calendar days in advance, then the permittee shall notify the Canton LAA at least 7 calendar days prior to the refilling activity. Unplanned activity notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. The notification may also be made in writing, provided that it is received at least 7 days prior to the refilling.

2. All reports and submittals shall be sent to the Administrator, Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702-1544.

V. Testing Requirements

1. Compliance with the control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

a. Control Measure:

This emissions unit shall comply with 40 CFR Part 63, Subpart CC by employing an external floating roof and a dual seal system as dictated within these terms and conditions. Compliance shall be demonstrated at the first degassing and cleaning activity after August 18, 1998 or by August 18, 2005, whichever comes first.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

V. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 84,966-gallon fixed roof storage vessel identified as tank number 216(emissions unit T068) which is used to store kerosene and distillate. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

VI. Miscellaneous Requirements

Emissions Unit ID: T068

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 19,600-gallon fixed roof storage vessel identified as tank number 9 (emissions unit T070) which is used to store oily sludge. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)(2)(a)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L)(1) because it is a fixed roof storage tank with a capacity less than 40,000 gallons.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation, an identification of each stored liquid, the maximum true vapor pressure (in psia) and the annual average true vapor pressure (in psia) of each stored liquid, the annual average HAP concentration of the stored liquid (in %, by weight), the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. All deviation (excursion) reports shall be submitted to the City of Canton Health Department, Division of Air Pollution Control at least thirty (30) days prior to such a change in the storage vessel's group designation.

V. Testing Requirements

1. Compliance with the emission control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

   a. Control Measure:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1. The permittee may use good engineering judgement or test results to determine the stored liquid weight percent total organic HAP for purposes of group determination. All data, assumptions, and procedures used in the determination shall be documented.

      The permittee shall calculate the annual average true vapor pressure and annual average HAP concentration in accordance with 40 CFR Part 63.646(b)(1) and section A.V.1.a of these terms and conditions

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 84,966-gallon fixed roof storage vessel identified as tank number 27 (emissions unit T072) which is used to store FCC charge material. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 212,142-gallon fixed roof storage vessel identified as tank number 41 (emissions unit T075) which is used to store FCC charge material. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 4,059,300-gallon fixed roof storage vessel identified as tank number 51 (emissions unit T077) which is used to store asphalt and FCC charge material. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

VI. Miscellaneous Requirements

Emissions Unit ID: T077

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 40,320-gallon fixed roof storage vessel identified as tank number 53 (emissions unit T078) which is used to store asphalt and FCC charge material. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation, an identification of each stored liquid, the maximum true vapor pressure (in psia) and the annual average true vapor pressure (in psia) of each stored liquid, the annual average HAP concentration of the stored liquid (in %, by weight), the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

   These deviation (excursion) reports shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. If the permittee places, stores, or holds in this fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 psia, the permittee shall notify the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1. The permittee may use good engineering judgement or test results to determine the stored liquid weight percent total organic HAP for purposes of group determination. All data, assumptions, and procedures used in the determination shall be documented.

The permittee shall calculate the annual average true vapor pressure and annual average HAP concentration in accordance with 40 CFR Part 63.646(b)(1) and section A.V.1.a of these terms and conditions.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 30,720-gallon fixed roof storage vessel identified as tank number 112 (emissions unit T079) which stores FCC re-run material. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)(2)(a)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L)(1) because it is a fixed roof storage tank with a capacity less than 40,000 gallons.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation, an identification of each stored liquid, the maximum true vapor pressure (in psia) and the annual average true vapor pressure (in psia) of each stored liquid, the annual average HAP concentration of the stored liquid (in %, by weight), the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. All deviation (excursion) reports shall be submitted to the City of Canton Health Department, Division of Air Pollution Control at least thirty (30) days prior to such a change in the storage vessel's group designation.

V. Testing Requirements

1. Compliance with the emission control measures in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

   a. Control Measure:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1. The permittee may use good engineering judgement or test results to determine the stored liquid weight percent total organic HAP for purposes of group determination. All data, assumptions, and procedures used in the determination shall be documented.

      The permittee shall calculate the annual average true vapor pressure and annual average HAP concentration in accordance with 40 CFR Part 63.646(b)(1) and section A.V.1.a of these terms and conditions.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 2,279,130-gallon fixed roof storage vessel identified as tank number 121(emissions unit T082) which is used to store asphalt and FCC charge material. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

VI. Miscellaneous Requirements

Emissions Unit ID: T082

1. This emissions unit is a "new source," as defined in OAC rule 3745-31-01, that has not obtained a permit to install in accordance with OAC rule 3745-31-02. The permittee installed this emissions unit in 1974 without first applying for and obtaining a permit to install (PTI), in violation of OAC rule 3745-31-02. As the initial step to allow this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application within 60 days after issuance of this permit.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 4,250,526-gallon fixed roof storage vessel identified as tank number 122 (emissions unit T083) which is used to store asphalt. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

VI. Miscellaneous Requirements

1. This emissions unit is a "new source," as defined in OAC rule 3745-31-01, that has not obtained a permit to install in accordance with OAC rule 3745-31-02. The permittee installed this emissions unit in 1974 without first applying for and obtaining a permit to install (PTI), in violation of OAC rule 3745-31-02. As the initial step to allow this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application within 60 days after issuance of this permit.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 2,276,400-gallon fixed roof storage vessel identified as tank number 127 (emissions unit T084) which is used to store FCC charge. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2 .bThis emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,081,080-gallon fixed roof storage vessel identified as tank number 203(emissions unit T085) which is used to store asphalt. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,018,752-gallon fixed roof storage vessel identified as tank number 204 (emissions unit T086) which is used to store asphalt. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,017,996-gallon fixed roof storage vessel identified as tank number 205 (emissions unit T087) which is used to store asphalt. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,017,996-gallon fixed roof storage vessel identified as tank number 206 (emissions unit T088) which is used to store vaccum bottoms. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 211,806-gallon fixed roof storage vessel identified as tank number 207 (emissions unit T089) which is used to store asphalt. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 211,848-gallon fixed roof storage vessel identified as tank number 209 (emissions unit T090) which is used to store asphalt. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 211,806-gallon fixed roof storage vessel identified as tank number 210 (emissions unit T091) which is used to store asphalt. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 4,048,632-gallon fixed roof storage vessel identified as tank number 223 (emissions unit T093) which is used to store asphalt. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 2,287,656-gallon fixed roof storage vessel identified as tank number 228 (emissions unit T094) which is used to store asphalt. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 2,286,564-gallon fixed roof storage vessel identified as tank number 229 (emissions unit T095) which is used to store asphalt. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 211,512-gallon fixed roof storage vessel identified as tank number 230 (emissions unit T096) which is used to store asphalt. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 211,512-gallon fixed roof storage vessel identified as tank number 231 (emissions unit T097) which is used to store asphalt. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

VI. Miscellaneous Requirements

Emissions Unit ID: T097

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 211,512-gallon fixed roof storage vessel identified as tank number 233 (emissions unit T098) which is used to store FCC charge. It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa (1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 20,000-gallon ethanol, fixed roof, storage vessel identified as tank number 236 (emissions unit T128). It is also equipped with a submerged fill line.	40 CFR Part 60, Subpart Kb	See sections A.I.2.a and A.II.3.
	OAC rule 3745-21-09(L)	exempt
		See section A.II.1.
	OAC rule 3745-31-05(A)(3) (PTI 15-0382)	See sections A.I.2.b and A.II.2.

2. Additional Terms and Conditions

2.a This emissions unit shall be subject to the requirements of 40 CFR Part 60, Subpart Kb [Part 60.110b(c)] if the permittee stores organic liquids with a maximum true vapor pressure greater than 3.5 KPa (0.5 psia). The permittee shall comply with 40 CFR Part 60, Subpart Kb by maintaining records as specified in 40 CFR Part 60.116b(a) and (b).

2.b The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

a. This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it has a capacity less than 40,000 gallons.

2. The permittee shall employ a submerged fill line on this storage vessel.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records showing the type of material stored within the storage vessel, the dimensions of the storage vessel, the true vapor pressure of the stored material at maximum storage temperature, and an analysis showing the capacity of the storage vessel.

2. All records shall be retained for as long as the storage vessel remains in operation. Records shall be maintained in a manner that they can be readily accessed. Records may be maintained in a hard copy format or in a computer-readable format.

IV. Reporting Requirements

a. The permittee shall submit deviation (excursion) reports that identify each time an organic liquid material with a maximum true vapor pressure in excess of 0.5 psia is stored in this storage vessel.

V. Testing Requirements

1. Compliance with the emission control measure in section A.I.2.a of these terms and conditions shall be determined in accordance with the following method:

   a. Control Measure:

      This emissions unit shall be subject to the requirements of 40 CFR Part 60, Subpart Kb [Part 60.110b(c)] if the permittee stores organic liquids with a maximum true vapor pressure greater than 3.5 KPa (0.5 psia). The permittee shall comply with 40 CFR Part 60, Subpart Kb by maintaining records as specified in 40 CFR Part 60.116b(a) and (b).

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 10,500-gallon ethanol storage vessel equipped with a fixed roof and identified as tank number 238 (emissions unit T129). It is also equipped with a submerged fill line.	40 CFR Part 60.116b(a) and (b), (Subpart Kb)	The permittee shall maintain records per 40 CFR Part 60.116(b), sections (a) and (b).
	OAC rule 3745-21-09(L)	exempt See section A.I.2.b.

2. Additional Terms and Conditions

2.a This emissions unit shall be subject to the requirements of 40 CFR Part 60, Subpart Kb [Part 60.110b(c)] if the permittee stores organic liquids with a maximum true vapor pressure greater than 3.5 KPa (0.5 psia). The permittee shall comply with 40 CFR Part 60, Subpart Kb by maintaining records as specified in 40 CFR Part 60.116b(a) and (b).

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it has a capacity less than 40,000 gallons.

II. Operational Restrictions

a. The permittee shall employ a submerged fill line on this storage vessel.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records showing the type of material stored within the storage vessel, the dimensions of the storage vessel, the true vapor pressure of the stored material at maximum storage temperature, and an analysis showing the capacity of the storage vessel.

2. All records shall be retained for as long as the storage vessel remains in operation. Records shall be maintained in a manner that they can be readily accessed. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit written deviation (excursion) reports that identify each change in the type of material stored. Storage of materials other than those described in section A.II.1 requires a written request submitted to the Canton local air agency prior to storage and the subsequent written approval from the agency.

V. Testing Requirements

1. Compliance with the emission control measure in section A.II.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Control Measure:

   This emissions unit shall be subject to the requirements of 40 CFR Part 60, Subpart Kb [Part 60.110b(c)] if the permittee stores organic liquids with a maximum true vapor pressure greater than 3.5 KPa (0.5 psia). The permittee shall comply with 40 CFR Part 60, Subpart Kb by maintaining records as specified in 40 CFR Part 60.116b(a) and (b).

   Applicable Compliance Method:

   Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.1.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,050,000-gallon distillate storage vessel identified as tank number 7 (emissions unit T130). It is classified as a Group 2 storage vessel pursuant to 40 CFR Part 63.641 (Subpart CC).	40 CFR Part 63.641, Subpart CC	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a The permittee shall operate this emissions unit as a Group 2 storage vessel as defined in 40 CFR Part 63.641. To be classified as a Group 1 storage vessel, the design storage capacity of the storage vessel must be greater than or equal to 177 cubic meters (46, 763 gallons), and store an organic liquid material with a maximum true vapor pressure greater than or equal to 10.4 kpa (1.51 psia), and store an organic liquid material with an average annual true vapor pressure greater than or equal to 8.3 kpa (1.21 psia), and store an organic liquid material with an average annual HAP concentration greater than 4%, by weight, as total organic HAP. Because this emissions unit does not meet the Group 1 definition as stated in 40 CFR Part 63.641, this emissions unit shall be operated as a Group 2 storage vessel. In accordance with 40 CFR Part 63.641, the permittee shall maintain records as specified in section A.III.1 for the Group 2 storage vessel while it is in operation and report any changes in the group status of the storage vessel as specified in section A.IV.1.

2.b This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it is a fixed roof storage vessel containing an organic liquid material with a maximum true vapor pressure below 1.52 psia and an average annual true vapor pressure of less than 8.3 kpa(1.21 psia).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the storage vessel's group designation for each stored material, an identification of each stored material, the average annual weight percent of HAP of each stored material, the maximum true vapor pressure and average annual true vapor pressure of each stored material, in psia, and the storage vessel's dimensions, and an analysis showing the capacity of the vessel.

2. All records shall be retained for as long as the storage vessel remains in operation or there is a change in the vessel's group category. Records shall be maintained in a manner that they can be readily accessible. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a deviation report describing any operational process change to this emissions unit that causes it to change from a Group 2 storage vessel to a Group 1 storage vessel. Each deviation report shall be submitted to the Canton local air agency at least thirty (30) days prior to such a change in the storage vessel's group designation.

2. The permittee shall submit a deviation report when the maximum true vapor pressure of the stored material exceeds 1.52 psia. Each deviation report shall be submitted to the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the applicable emission control measures in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Emission Limitation:

      The permittee shall operate this emissions unit as a Group 2 storage vessel.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

VI. Miscellaneous Requirements

Emissions Unit ID: T130

1. This emissions unit is a "new source," as defined in OAC rule 3745-31-01, that has not obtained a permit to install in accordance with OAC rule 3745-31-02. The permittee installed this emissions unit in 1976 without first applying for and obtaining a permit to install (PTI), in violation of OAC rule 3745-31-02. As the initial step to allow this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application within 60 days after issuance of this permit.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,050,000-gallon fixed roof kerosene storage vessel identified as tank number 7 (emissions unit T134). It is also equipped with a submerged fill line.	40 CFR Part 60, Subpart Kb	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.II.1.
	OAC rule 3745-31-05(A)(3) (PTI 15-0443)	0.25 tpy of volatile organic compounds (VOC)
		See section A.I.2.b.

2. Additional Terms and Conditions

2.a This emissions unit shall be subject to the requirements of 40 CFR Part 60, Subpart Kb [Part 60.110b(c)] if the permittee stores organic liquids with a maximum true vapor pressure greater than 3.5 KPa (0.5 psia). The permittee shall comply with 40 CFR Part 60, Subpart Kb by maintaining records as specified in 40 CFR Part 60.116b(a) and (b).

2.b The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

a. This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L) because it has a capacity less than 40,000 gallons.

2. The permittee shall employ a submerged fill line on this storage vessel.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records showing the type of material stored within the storage vessel, the dimensions of the storage vessel, the true vapor pressure of the stored material at maximum storage temperature, and an analysis showing the capacity of the storage vessel.

2. All records shall be retained for as long as the storage vessel remains in operation. Records shall be maintained in a manner that they can be readily accessed. Records may be maintained in a hard copy format or in a computer-readable format.

3. The permittee shall calculate and maintain records of the annual emissions of VOC from this emissions unit by using the emissions estimation methodologies provided in the most current version of AP-42, Section 5.2 "Transportation and Marketing of Petroleum Liquids" or the most updated version of USEPA's TANKS computer program. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions.

4. The permittee shall maintain records of the actual annual throughput of each liquid for this storage vessel.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each time an organic liquid material with a maximum true vapor pressure in excess of 0.5 psia is stored in this storage vessel.

2. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 0.25 tpy, the permittee shall also submit the actual annual throughput of each liquid, as stored required in section A.III.4 and the calculations required in section A.III.3.

V. Testing Requirements

1. Compliance with the emission control measure in section A.II.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Control Measure:

      This emissions unit shall be subject to the requirements of 40 CFR Part 60, Subpart Kb [Part 60.110b(c)] if the permittee stores organic liquids with a maximum true vapor pressure greater than 3.5 KPa (0.5 psia). The permittee shall comply with 40 CFR Part 60, Subpart Kb by maintaining records as specified in 40 CFR Part 60.116b(a) and (b).

      Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.1.

b. Emission Limitation:

0.25 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in sections A.III.3 and A.III.4.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,344,000-gallon, fixed roof storage vessel for the storage of petroleum liquids with a true vapor pressure < 11 psia. This storage vessel is identified as tank number 240 (emissions unit T142) and is equipped with a submerged fill line and an internal floating roof. The storage vessel is also equipped with a vapor-type primary seal and a wiper-type secondary seal.	40 CFR Part 60, Subpart Kb	See section A.I.2.a.
	OAC rule 3745-21-09(L)	See section A.I.2.b.
	OAC rule 3745-31-05(A)(3) (PTI 15-0553)	5 tpy of volatile organic compounds (VOC) See sections A.I.2.c and A.I.2.d.

2. Additional Terms and Conditions

2.a The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

2.b The requirements specified by this rule are less stringent than the requirements established pursuant to 40 CFR Part 60, Subpart Kb.

2.c The permittee shall employ a submerged fill line for this storage vessel.

2.d The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

a. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside the storage vessel having a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

2. The internal floating roof shall be equipped with a closure device between the wall of the storage vessel and the edge of the internal floating roof. The closure device shall consist of two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

3. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and the rim space vents, is to provide a projection below the liquid surface.

4. Each opening in the internal floating roof except for the leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap), except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted, except when they are in use.

5. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

vi. Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

7. Each penetration of the internal floating roof used for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.

f. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

g. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections of the internal floating roof and its seals:

a. Visually inspect the internal floating roof, the primary seal, and the secondary seal prior to filling the storage vessel with volatile liquids. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the permittee shall repair the items before filling the storage vessel.

b. Visually inspect the vessel according to section A.III.1.c at least every 5 years or according to section A.III.1.d.

c. Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10% open area, the permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with volatile organic liquid.

d. Visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the liquid or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the permittee shall repair the items or empty and remove the vessel from service within 45 days. If a failure that is detected during the initial inspections required cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the administrator in the inspection report. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the permittee will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

b. In no event shall inspections occur at intervals greater than 10 years in the case of vessels conducting annual inspections as specified in section A.III.1.d and at intervals no greater than 5 years in the case of vessels specified in section A.III.1.c.

3. The permittee shall keep a record of each inspection performed in accordance with section A.III. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

4. The permittee shall maintain a record of the volatile organic liquid stored, the period of storage, and the maximum true vapor pressure of that volatile organic liquid during the respective storage period. Available data on the storage temperature may be used to determine the maximum true vapor pressure in accordance with the methods and procedures defined in 40 CFR Part 60.116b(e).

5. All records shall be retained for at least 2 years except as identified in section A.III.5. Records shall be maintained in a manner that they can be readily accessed within 24 hours. Records may be maintained in a hard copy format or in a computer-readable format. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.

6. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit, in either gallons/year or barrels/year.

G. The permittee shall calculate and maintain records of the annual VOC emissions from this emissions unit. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions of VOC by using the emissions estimation methodologies provided in the most current version of AP-42, section 5.1 "Transportation of Petroleum Liquids" or the most recent version of USEPA's TANKS computer program.

IV. Reporting Requirements

a. The permittee shall notify the Canton local air agency in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by section A.III.1.a or A.III.1.c to afford the agency the opportunity to have an observer present. If the inspection required by section A.III.1.c is not planned and the permittee could not have known about the inspection 30 days in advance of refilling the tank, the permittee shall notify the Canton local air agency at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Canton local air agency at least 7 days prior to the refilling.

2. The permittee shall report to the Canton local air agency any conditions described in section A.III.1.d that are detected during any annual inspection within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and the date of the repair. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR Part 61.112b(a)(1) or 40 CFR Part 60.113b(a)(3) and list each repair made.

3. The permittee shall furnish the Canton local air agency with a report that describes the control equipment and certifies that the control equipment meets the specifications of 40 CFR Part 60.112b(a)(1) and 40 CFR Part 60.113b(a)(1). This report shall be an attachment to the notification required by 40 CFR Part 60.7(a)(3).

4. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 5 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.6, and the calculations required in section A.III.7.

V. Testing Requirements

1. Compliance with the emission limitation and the control measure in sections A.I.1 and A.I.2.a of these terms and conditions shall be determined in accordance with the following methods:

a. Control Measure:

The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

b. Emission Limitation:

5 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in sections A.III.6 and A.III.7.

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

2. Additional Terms and Conditions

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,944,000-gallon, fixed roof storage vessel for the storage of petroleum liquids with a true vapor pressure < 11 psia. This storage vessel is identified as tank number 242 (emissions unit T143) and is equipped with a submerged fill line and an internal floating roof. The storage vessel is also equipped with a vapor-type primary seal and a wiper-type secondary seal.	40 CFR Part 60, Subpart Kb	See section A.I.2.a.
	OAC rule 3745-21-09(L)	See section A.I.2.b.
	OAC rule 3745-31-05(A)(3) (PTI 15-0511)	3 tpy of volatile organic compounds (VOC) See sections A.I.2.c and A.I.2.d.

2. Additional Terms and Conditions

2.a The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

2.b The requirements specified by this rule are less stringent than the requirements established pursuant to 40 CFR Part 60, Subpart Kb.

2.c The permittee shall employ a submerged fill line for this storage vessel.

2.d The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

a. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside the storage vessel having a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

2. The internal floating roof shall be equipped with a closure device between the wall of the storage vessel and the edge of the internal floating roof. The closure device shall consist of two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

3. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and the rim space vents, is to provide a projection below the liquid surface.

4. Each opening in the internal floating roof except for the leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap), except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted, except when they are in use.

5. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

vi. Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

7. Each penetration of the internal floating roof used for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.

f. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

g. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections of the internal floating roof and its seals:

a. Visually inspect the internal floating roof, the primary seal, and the secondary seal prior to filling the storage vessel with volatile liquids. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the permittee shall repair the items before filling the storage vessel.

b. Visually inspect the vessel according to section A.III.1.c at least every 5 years or according to section A.III.1.d.

c. Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10% open area, the permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with volatile organic liquid.

d. Visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the liquid or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the permittee shall repair the items or empty and remove the vessel from service within 45 days. If a failure that is detected during the initial inspections required cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the administrator in the inspection report. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the permittee will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

b. In no event shall inspections occur at intervals greater than 10 years in the case of vessels conducting annual inspections as specified in section A.III.1.d and at intervals no greater than 5 years in the case of vessels specified in section A.III.1.c.

3. The permittee shall keep a record of each inspection performed in accordance with section A.III. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

4. The permittee shall maintain a record of the volatile organic liquid stored, the period of storage, and the maximum true vapor pressure of that volatile organic liquid during the respective storage period. Available data on the storage temperature may be used to determine the maximum true vapor pressure in accordance with the methods and procedures defined in 40 CFR Part 60.116b(e).

5. All records shall be retained for at least 2 years except as identified in section A.III.5. Records shall be maintained in a manner that they can be readily accessed within 24 hours. Records may be maintained in a hard copy format or in a computer-readable format. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.

6. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit, in either gallons/year or barrels/year.

G. The permittee shall calculate and maintain records of the annual VOC emissions from this emissions unit. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions of VOC by using the emissions estimation methodologies provided in the most current version of AP-42, section 5.1 "Transportation of Petroleum Liquids" or the most recent version of USEPA's TANKS computer program.

IV. Reporting Requirements

a. The permittee shall notify the Canton local air agency in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by section A.III.1.a or A.III.1.c to afford the agency the opportunity to have an observer present. If the inspection required by section A.III.1.c is not planned and the permittee could not have known about the inspection 30 days in advance of refilling the tank, the permittee shall notify the Canton local air agency at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Canton local air agency at least 7 days prior to the refilling.

2. The permittee shall report to the Canton local air agency any conditions described in section A.III.1.d that are detected during any annual inspection within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and the date of the repair. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR Part 61.112b(a)(1) or 40 CFR Part 60.113b(a)(3) and list each repair made.

3. The permittee shall furnish the Canton local air agency with a report that describes the control equipment and certifies that the control equipment meets the specifications of 40 CFR Part 60.112b(a)(1) and 40 CFR Part 60.113b(a)(1). This report shall be an attachment to the notification required by 40 CFR Part 60.7(a)(3).

4. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 5 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.6, and the calculations required in section A.III.7.

V. Testing Requirements

1. Compliance with the emission limitation and the control measure in sections A.I.1 and A.I.2.a of these terms and conditions shall be determined in accordance with the following methods:

a. Control Measure:

The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

b. Emission Limitation:

3 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in sections A.III.6 and A.III.7.

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

2. Additional Terms and Conditions

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,260,000-gallon, fixed roof storage vessel for the storage of petroleum liquids with a true vapor pressure < 11 psia. This storage vessel is identified as tank number 243 (emissions unit T144) and is equipped with a submerged fill line and an internal floating roof. The storage vessel is also equipped with a vapor-type primary seal and a wiper-type secondary seal.	40 CFR Part 60, Subpart Kb	See section A.I.2.a.
	OAC rule 3745-21-09(L)	See section A.I.2.b.
	OAC rule 3745-31-05(A)(3) (PTI 15-1107)	6 tpy of volatile organic compounds (VOC) See sections A.I.2.c and A.I.2.d.

2. Additional Terms and Conditions

2.a The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

2.b The requirements specified by this rule are less stringent than the requirements established pursuant to 40 CFR Part 60, Subpart Kb.

2.c The permittee shall employ a submerged fill line for this storage vessel.

2.d The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

a. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside the storage vessel having a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

2. The internal floating roof shall be equipped with a closure device between the wall of the storage vessel and the edge of the internal floating roof. The closure device shall consist of two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

3. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and the rim space vents, is to provide a projection below the liquid surface.

4. Each opening in the internal floating roof except for the leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap), except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted, except when they are in use.

5. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

vi. Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

7. Each penetration of the internal floating roof used for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.

f. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

g. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections of the internal floating roof and its seals:

a. Visually inspect the internal floating roof, the primary seal, and the secondary seal prior to filling the storage vessel with volatile liquids. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the permittee shall repair the items before filling the storage vessel.

b. Visually inspect the vessel according to section A.III.1.c at least every 5 years or according to section A.III.1.d.

c. Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10% open area, the permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with volatile organic liquid.

d. Visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the liquid or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the permittee shall repair the items or empty and remove the vessel from service within 45 days. If a failure that is detected during the initial inspections required cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the administrator in the inspection report. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the permittee will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

b. In no event shall inspections occur at intervals greater than 10 years in the case of vessels conducting annual inspections as specified in section A.III.1.d and at intervals no greater than 5 years in the case of vessels specified in section A.III.1.c.

3. The permittee shall keep a record of each inspection performed in accordance with section A.III. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

4. The permittee shall maintain a record of the volatile organic liquid stored, the period of storage, and the maximum true vapor pressure of that volatile organic liquid during the respective storage period. Available data on the storage temperature may be used to determine the maximum true vapor pressure in accordance with the methods and procedures defined in 40 CFR Part 60.116b(e).

5. All records shall be retained for at least 2 years except as identified in section A.III.5. Records shall be maintained in a manner that they can be readily accessed within 24 hours. Records may be maintained in a hard copy format or in a computer-readable format. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.

6. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit, in either gallons/year or barrels/year.

G. The permittee shall calculate and maintain records of the annual VOC emissions from this emissions unit. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions of VOC by using the emissions estimation methodologies provided in the most current version of AP-42, section 5.1 "Transportation of Petroleum Liquids" or the most recent version of USEPA's TANKS computer program.

IV. Reporting Requirements

a. The permittee shall notify the Canton local air agency in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by section A.III.1.a or A.III.1.c to afford the agency the opportunity to have an observer present. If the inspection required by section A.III.1.c is not planned and the permittee could not have known about the inspection 30 days in advance of refilling the tank, the permittee shall notify the Canton local air agency at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Canton local air agency at least 7 days prior to the refilling.

2. The permittee shall report to the Canton local air agency any conditions described in section A.III.1.d that are detected during any annual inspection within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and the date of the repair. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR Part 61.112b(a)(1) or 40 CFR Part 60.113b(a)(3) and list each repair made.

3. The permittee shall furnish the Canton local air agency with a report that describes the control equipment and certifies that the control equipment meets the specifications of 40 CFR Part 60.112b(a)(1) and 40 CFR Part 60.113b(a)(1). This report shall be an attachment to the notification required by 40 CFR Part 60.7(a)(3).

4. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 5 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.6, and the calculations required in section A.III.7.

V. Testing Requirements

1. Compliance with the emission limitation and the control measure in sections A.I.1 and A.I.2.a of these terms and conditions shall be determined in accordance with the following methods:

a. Control Measure:

The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

b. Emission Limitation:

6 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in sections A.III.6 and A.III.7.

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

2. Additional Terms and Conditions

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,180,000-gallon, fixed roof storage vessel for the storage of petroleum liquids with a true vapor pressure < 11 psia. This storage vessel is identified as tank number 244 (emissions unit T148) and is equipped with a submerged fill line and an internal floating roof. The storage vessel is also equipped with a vapor-type primary seal and a wiper-type secondary seal.	40 CFR Part 60, Subpart Kb	See section A.I.2.a.
	OAC rule 3745-21-09(L)	See section A.I.2.b.
	OAC rule 3745-31-05(A)(3) (PTI 15-0607)	2.48 tpy of volatile organic compounds (VOC) See sections A.I.2.c and A.I.2.d.

2. Additional Terms and Conditions

2.a The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

2.b The requirements specified by this rule are less stringent than the requirements established pursuant to 40 CFR Part 60, Subpart Kb.

2.c The permittee shall employ a submerged fill line for this storage vessel.

2.d The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

a. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside the storage vessel having a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

2. The internal floating roof shall be equipped with a closure device between the wall of the storage vessel and the edge of the internal floating roof. The closure device shall consist of two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

3. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and the rim space vents, is to provide a projection below the liquid surface.

4. Each opening in the internal floating roof except for the leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap), except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted, except when they are in use.

5. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

vi. Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

7. Each penetration of the internal floating roof used for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.

f. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

g. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections of the internal floating roof and its seals:

a. Visually inspect the internal floating roof, the primary seal, and the secondary seal prior to filling the storage vessel with volatile liquids. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the permittee shall repair the items before filling the storage vessel.

b. Visually inspect the vessel according to section A.III.1.c at least every 5 years or according to section A.III.1.d.

c. Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10% open area, the permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with volatile organic liquid.

d. Visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the liquid or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the permittee shall repair the items or empty and remove the vessel from service within 45 days. If a failure that is detected during the initial inspections required cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the administrator in the inspection report. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the permittee will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

b. In no event shall inspections occur at intervals greater than 10 years in the case of vessels conducting annual inspections as specified in section A.III.1.d and at intervals no greater than 5 years in the case of vessels specified in section A.III.1.c.

3. The permittee shall keep a record of each inspection performed in accordance with section A.III. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

4. The permittee shall maintain a record of the volatile organic liquid stored, the period of storage, and the maximum true vapor pressure of that volatile organic liquid during the respective storage period. Available data on the storage temperature may be used to determine the maximum true vapor pressure in accordance with the methods and procedures defined in 40 CFR Part 60.116b(e).

5. All records shall be retained for at least 2 years except as identified in section A.III.5. Records shall be maintained in a manner that they can be readily accessed within 24 hours. Records may be maintained in a hard copy format or in a computer-readable format. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.

6. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit, in either gallons/year or barrels/year.

G. The permittee shall calculate and maintain records of the annual VOC emissions from this emissions unit. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions of VOC by using the emissions estimation methodologies provided in the most current version of AP-42, section 5.1 "Transportation of Petroleum Liquids" or the most recent version of USEPA's TANKS computer program.

IV. Reporting Requirements

a. The permittee shall notify the Canton local air agency in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by section A.III.1.a or A.III.1.c to afford the agency the opportunity to have an observer present. If the inspection required by section A.III.1.c is not planned and the permittee could not have known about the inspection 30 days in advance of refilling the tank, the permittee shall notify the Canton local air agency at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Canton local air agency at least 7 days prior to the refilling.

2. The permittee shall report to the Canton local air agency any conditions described in section A.III.1.d that are detected during any annual inspection within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and the date of the repair. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR Part 61.112b(a)(1) or 40 CFR Part 60.113b(a)(3) and list each repair made.

3. The permittee shall furnish the Canton local air agency with a report that describes the control equipment and certifies that the control equipment meets the specifications of 40 CFR Part 60.112b(a)(1) and 40 CFR Part 60.113b(a)(1). This report shall be an attachment to the notification required by 40 CFR Part 60.7(a)(3).

4. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 5 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.6, and the calculations required in section A.III.7.

V. Testing Requirements

1. Compliance with the emission limitation and the control measure in sections A.I.1 and A.I.2.a of these terms and conditions shall be determined in accordance with the following methods:

a. Control Measure:

The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

b. Emission Limitation:

2.48 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in sections A.III.6 and A.III.7.

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

2. Additional Terms and Conditions

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,180,000-gallon, fixed roof storage vessel for the storage of petroleum liquids with a true vapor pressure < 11 psia. This storage vessel is identified as tank number 245 (emissions unit T149) and is equipped with a submerged fill line and an internal floating roof. The storage vessel is also equipped with a vapor-type primary seal and a wiper-type secondary seal.	40 CFR Part 60, Subpart Kb	See section A.I.2.a.
	OAC rule 3745-21-09(L)	See section A.I.2.b.
	OAC rule 3745-31-05(A)(3) (PTI 15-0607)	2.48 tpy of volatile organic compounds (VOC) See sections A.I.2.c and A.I.2.d.

2. Additional Terms and Conditions

2.a The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

2.b The requirements specified by this rule are less stringent than the requirements established pursuant to 40 CFR Part 60, Subpart Kb.

2.c The permittee shall employ a submerged fill line for this storage vessel.

2.d The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

a. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside the storage vessel having a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

2. The internal floating roof shall be equipped with a closure device between the wall of the storage vessel and the edge of the internal floating roof. The closure device shall consist of two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

3. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and the rim space vents, is to provide a projection below the liquid surface.

4. Each opening in the internal floating roof except for the leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap), except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted, except when they are in use.

5. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

vi. Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

7. Each penetration of the internal floating roof used for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.

f. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

g. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections of the internal floating roof and its seals:

a. Visually inspect the internal floating roof, the primary seal, and the secondary seal prior to filling the storage vessel with volatile liquids. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the permittee shall repair the items before filling the storage vessel.

b. Visually inspect the vessel according to section A.III.1.c at least every 5 years or according to section A.III.1.d.

c. Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10% open area, the permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with volatile organic liquid.

d. Visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the liquid or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the permittee shall repair the items or empty and remove the vessel from service within 45 days. If a failure that is detected during the initial inspections required cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the administrator in the inspection report. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the permittee will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

b. In no event shall inspections occur at intervals greater than 10 years in the case of vessels conducting annual inspections as specified in section A.III.1.d and at intervals no greater than 5 years in the case of vessels specified in section A.III.1.c.

3. The permittee shall keep a record of each inspection performed in accordance with section A.III. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

4. The permittee shall maintain a record of the volatile organic liquid stored, the period of storage, and the maximum true vapor pressure of that volatile organic liquid during the respective storage period. Available data on the storage temperature may be used to determine the maximum true vapor pressure in accordance with the methods and procedures defined in 40 CFR Part 60.116b(e).

5. All records shall be retained for at least 2 years except as identified in section A.III.5. Records shall be maintained in a manner that they can be readily accessed within 24 hours. Records may be maintained in a hard copy format or in a computer-readable format. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.

6. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit, in either gallons/year or barrels/year.

G. The permittee shall calculate and maintain records of the annual VOC emissions from this emissions unit. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions of VOC by using the emissions estimation methodologies provided in the most current version of AP-42, section 5.1 "Transportation of Petroleum Liquids" or the most recent version of USEPA's TANKS computer program.

IV. Reporting Requirements

a. The permittee shall notify the Canton local air agency in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by section A.III.1.a or A.III.1.c to afford the agency the opportunity to have an observer present. If the inspection required by section A.III.1.c is not planned and the permittee could not have known about the inspection 30 days in advance of refilling the tank, the permittee shall notify the Canton local air agency at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Canton local air agency at least 7 days prior to the refilling.

2. The permittee shall report to the Canton local air agency any conditions described in section A.III.1.d that are detected during any annual inspection within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and the date of the repair. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR Part 61.112b(a)(1) or 40 CFR Part 60.113b(a)(3) and list each repair made.

3. The permittee shall furnish the Canton local air agency with a report that describes the control equipment and certifies that the control equipment meets the specifications of 40 CFR Part 60.112b(a)(1) and 40 CFR Part 60.113b(a)(1). This report shall be an attachment to the notification required by 40 CFR Part 60.7(a)(3).

4. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 5 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.6, and the calculations required in section A.III.7.

V. Testing Requirements

1. Compliance with the emission limitation and the control measure in sections A.I.1 and A.I.2.a of these terms and conditions shall be determined in accordance with the following methods:

a. Control Measure:

The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

b. Emission Limitation:

2.48 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in sections A.III.6 and A.III.7.

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

2. Additional Terms and Conditions

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 39,800-gallon slop oil storage vessel equipped with a fixed roof and identified as tank number 246 (emissions unit T153). It is also equipped with a submerged fill line.	40 CFR Part 60, Subpart Kb	See section A.III.1.
	OAC rule 3745-31-05(A)(3) (PTI 15-1018)	1.2 tpy of VOC See sections A.I.2.a and A.I.2.b.
	OAC rule 3745-21-09(L)(2)(a)	exempt See section A.I.2.c.

2. Additional Terms and Conditions

2.a The permittee shall employ a permanent submerged fill pipe.

2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part60, Subpart Kb.

2.c This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L)(1) because it is a fixed roof storage tank with a capacity less than 40,000 gallons.

II. Operational Restrictions

a. The permittee shall store only petroleum liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records showing the type of material stored within the storage vessel, the dimensions of the storage vessel, the true vapor pressure of the stored material at maximum storage temperature, and an analysis showing the capacity of the storage vessel.

2. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit.

3. The permittee shall calculate and maintain records of the annual emissions of VOC from this emissions unit by using the emissions estimation methodologies provided in the most current version of AP-42, Section 5.2 "Transportation and Marketing of Petroleum Liquids" or the most updated version USEPA's TANKS computer program. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions.

4. All records shall be retained for as long as the storage vessel remains in operation. Records shall be maintained in a manner that they can be readily accessed. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a written deviation (excursion) report when the maximum true vapor pressure of the material stored in this storage vessel is greater than or equal to 3.5 KPa (0.5 psia).

2. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 1.2 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.2, and the calculations required in section A.III.3.

V. Testing Requirements

1. Compliance with the emission limitation and control measures in sections A.I.1 and A.II.1 of these terms and conditions shall be determined in accordance with the following methods:

   a. Control Measure:

      The permittee shall store only petroleum liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

   b. Emission Limitation:

1.2 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.3.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 39,800-gallon slop oil storage vessel equipped with a fixed roof and identified as tank number 247 (emissions unit T154). It is also equipped with a submerged fill line.	40 CFR Part 60, Subpart Kb	See section A.III.1.
	OAC rule 3745-31-05(A)(3) (PTI 15-1018)	1.2 tpy of VOC See sections A.I.2.a and A.I.2.b.
	OAC rule 3745-21-09(L)(2)(a)	exempt See section A.I.2.c.

2. Additional Terms and Conditions

2.a The permittee shall employ a permanent submerged fill pipe.

2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part60, Subpart Kb.

2.c This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L)(1) because it is a fixed roof storage tank with a capacity less than 40,000 gallons.

II. Operational Restrictions

a. The permittee shall store only petroleum liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records showing the type of material stored within the storage vessel, the dimensions of the storage vessel, the true vapor pressure of the stored material at maximum storage temperature, and an analysis showing the capacity of the storage vessel.

2. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit.

3. The permittee shall calculate and maintain records of the annual emissions of VOC from this emissions unit by using the emissions estimation methodologies provided in the most current version of AP-42, Section 5.2 "Transportation and Marketing of Petroleum Liquids" or the most updated version USEPA's TANKS computer program. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions.

4. All records shall be retained for as long as the storage vessel remains in operation. Records shall be maintained in a manner that they can be readily accessed. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a written deviation (excursion) report when the maximum true vapor pressure of the material stored in this storage vessel is greater than or equal to 3.5 KPa (0.5 psia).

2. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 1.2 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.2, and the calculations required in section A.III.3.

V. Testing Requirements

1. Compliance with the emission limitation and control measures in sections A.I.1 and A.II.1 of these terms and conditions shall be determined in accordance with the following methods:

   a. Control Measure:

      The permittee shall store only petroleum liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

   b. Emission Limitation:

1.2 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.3.

VI. Miscellaneous Requirements

None

Emission Unit ID: T154

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 21,000-gallon gasoline additive storage vessel equipped with a fixed roof and identified as tank number 250 (emissions unit T160). It is also equipped with a submerged fill line.	40 CFR Part 60, Subpart Kb	See section A.III.1.
	OAC rule 3745-31-05(A)(3) (PTI 15-0875)	1.2 tpy of VOC See sections A.I.2.a and A.I.2.b.
	OAC rule 3745-21-09(L)(2)(a)	exempt See section A.I.2.c.

2. Additional Terms and Conditions

2.a The permittee shall employ a permanent submerged fill pipe.

2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part60, Subpart Kb.

2.c This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L)(1) because it is a fixed roof storage tank with a capacity less than 40,000 gallons.

II. Operational Restrictions

a. The permittee shall store only petroleum liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records showing the type of material stored within the storage vessel, the dimensions of the storage vessel, the true vapor pressure of the stored material at maximum storage temperature, and an analysis showing the capacity of the storage vessel.

2. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit.

3. The permittee shall calculate and maintain records of the annual emissions of VOC from this emissions unit by using the emissions estimation methodologies provided in the most current version of AP-42, Section 5.2 "Transportation and Marketing of Petroleum Liquids" or the most updated version USEPA's TANKS computer program. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions.

4. All records shall be retained for as long as the storage vessel remains in operation. Records shall be maintained in a manner that they can be readily accessed. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a written deviation (excursion) report when the maximum true vapor pressure of the material stored in this storage vessel is greater than or equal to 3.5 KPa (0.5 psia).

2. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 1.2 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.2, and the calculations required in section A.III.3.

V. Testing Requirements

1. Compliance with the emission limitation and control measures in sections A.I.1 and A.II.1 of these terms and conditions shall be determined in accordance with the following methods:

   a. Control Measure:

      The permittee shall store only petroleum liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

   b. Emission Limitation:

1.2 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.3.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 39,800-gallon ethanol storage vessel equipped with a fixed roof and identified as tank number 249 (emissions unit T161). It is also equipped with a submerged fill line.	40 CFR Part 60, Subpart Kb	See section A.III.1.
	OAC rule 3745-31-05(A)(3) (PTI 15-0887)	1.9 tpy of VOC See sections A.I.2.a and A.I.2.b.
	OAC rule 3745-21-09(L)(2)(a)	exempt See section A.I.2.c.

2. Additional Terms and Conditions

2.a The permittee shall employ a permanent submerged fill pipe.

2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part60, Subpart Kb.

2.c This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L)(1) because it is a fixed roof storage tank with a capacity less than 40,000 gallons.

II. Operational Restrictions

a. The permittee shall store only petroleum liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records showing the type of material stored within the storage vessel, the dimensions of the storage vessel, the true vapor pressure of the stored material at maximum storage temperature, and an analysis showing the capacity of the storage vessel.

2. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit.

3. The permittee shall calculate and maintain records of the annual emissions of VOC from this emissions unit by using the emissions estimation methodologies provided in the most current version of AP-42, Section 5.2 "Transportation and Marketing of Petroleum Liquids" or the most updated version USEPA's TANKS computer program. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions.

4. All records shall be retained for as long as the storage vessel remains in operation. Records shall be maintained in a manner that they can be readily accessed. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a written deviation (excursion) report when the maximum true vapor pressure of the material stored in this storage vessel is greater than or equal to 3.5 KPa (0.5 psia).

2. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 1.9 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.2, and the calculations required in section A.III.3.

V. Testing Requirements

1. Compliance with the emission limitation and control measures in sections A.I.1 and A.II.1 of these terms and conditions shall be determined in accordance with the following methods:

   a. Control Measure:

      The permittee shall store only petroleum liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

      Applicable Compliance Method:

      Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

   b. Emission Limitation:

1.9 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.3.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 550,000-gallon, fixed roof storage vessel for the storage of petroleum liquids with a true vapor pressure < 11 psia. This storage vessel is identified as tank number 251 (emissions unit T162) and is equipped with a submerged fill line and an internal floating roof. The storage vessel is also equipped with a vapor-type primary seal and a wiper-type secondary seal.	40 CFR Part 60, Subpart Kb	See section A.I.2.a.
	OAC rule 3745-21-09(L)	See section A.I.2.b.
	OAC rule 3745-31-05(A)(3) (PTI 15-0607)	3.32 tpy of volatile organic compounds (VOC) See sections A.I.2.c and A.I.2.d.

2. Additional Terms and Conditions

2.a The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

2.b The requirements specified by this rule are less stringent than the requirements established pursuant to 40 CFR Part 60, Subpart Kb.

2.c The permittee shall employ a submerged fill line for this storage vessel.

2.d The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

a. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside the storage vessel having a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

2. The internal floating roof shall be equipped with a closure device between the wall of the storage vessel and the edge of the internal floating roof. The closure device shall consist of two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

3. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and the rim space vents, is to provide a projection below the liquid surface.

4. Each opening in the internal floating roof except for the leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap), except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted, except when they are in use.

5. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

vi. Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

7. Each penetration of the internal floating roof used for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.

f. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

g. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections of the internal floating roof and its seals:

a. Visually inspect the internal floating roof, the primary seal, and the secondary seal prior to filling the storage vessel with volatile liquids. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the permittee shall repair the items before filling the storage vessel.

b. Visually inspect the vessel according to section A.III.1.c at least every 5 years or according to section A.III.1.d.

c. Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10% open area, the permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with volatile organic liquid.

d. Visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the liquid or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the permittee shall repair the items or empty and remove the vessel from service within 45 days. If a failure that is detected during the initial inspections required cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the administrator in the inspection report. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the permittee will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

b. In no event shall inspections occur at intervals greater than 10 years in the case of vessels conducting annual inspections as specified in section A.III.1.d and at intervals no greater than 5 years in the case of vessels specified in section A.III.1.c.

3. The permittee shall keep a record of each inspection performed in accordance with section A.III. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

4. The permittee shall maintain a record of the volatile organic liquid stored, the period of storage, and the maximum true vapor pressure of that volatile organic liquid during the respective storage period. Available data on the storage temperature may be used to determine the maximum true vapor pressure in accordance with the methods and procedures defined in 40 CFR Part 60.116b(e).

5. All records shall be retained for at least 2 years except as identified in section A.III.5. Records shall be maintained in a manner that they can be readily accessed within 24 hours. Records may be maintained in a hard copy format or in a computer-readable format. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.

6. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit, in either gallons/year or barrels/year.

G. The permittee shall calculate and maintain records of the annual VOC emissions from this emissions unit. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions of VOC by using the emissions estimation methodologies provided in the most current version of AP-42, section 5.1 "Transportation of Petroleum Liquids" or the most recent version of USEPA's TANKS computer program.

IV. Reporting Requirements

a. The permittee shall notify the Canton local air agency in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by section A.III.1.a or A.III.1.c to afford the agency the opportunity to have an observer present. If the inspection required by section A.III.1.c is not planned and the permittee could not have known about the inspection 30 days in advance of refilling the tank, the permittee shall notify the Canton local air agency at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Canton local air agency at least 7 days prior to the refilling.

2. The permittee shall report to the Canton local air agency any conditions described in section A.III.1.d that are detected during any annual inspection within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and the date of the repair. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR Part 61.112b(a)(1) or 40 CFR Part 60.113b(a)(3) and list each repair made.

3. The permittee shall furnish the Canton local air agency with a report that describes the control equipment and certifies that the control equipment meets the specifications of 40 CFR Part 60.112b(a)(1) and 40 CFR Part 60.113b(a)(1). This report shall be an attachment to the notification required by 40 CFR Part 60.7(a)(3).

4. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 5 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.6, and the calculations required in section A.III.7.

V. Testing Requirements

1. Compliance with the emission limitation and the control measure in sections A.I.1 and A.I.2.a of these terms and conditions shall be determined in accordance with the following methods:

a. Control Measure:

The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

b. Emission Limitation:

3.32 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in sections A.III.6 and A.III.7.

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

2. Additional Terms and Conditions

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 2,330,000-gallon fixed roof kerosene storage vessel identified as tank number 252 (emissions unit T166). It is also equipped with a submerged fill line.	40 CFR Part 60, Subpart Kb	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.II.1.
	OAC rule 3745-31-05(A)(3)	1.61 tpy of VOC
	(PTI 15-1100)	See section A.I.2.b.

2. **Additional Terms and Conditions**

2.a This emissions unit shall be subject to the requirements of 40 CFR Part 60, Subpart Kb [Part 60.110b(c)] if the permittee stores organic liquids with a maximum true vapor pressure greater than 3.5 KPa (0.5 psia). The permittee shall comply with 40 CFR Part 60, Subpart Kb by maintaining records as specified in 40 CFR Part 60.116b(a) and (b).

2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

a. This emissions unit is exempt from the terms and conditions of OAC rule 3745-21-09(L) as long as the permittee stores organic liquid material with a maximum true vapor pressure less than 1.52 psia.

2. The permittee shall employ a submerged fill line on this storage vessel.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records showing the type of material stored within the storage vessel, the dimensions of the storage vessel, the maximum true vapor pressure of the stored material, and an analysis showing the capacity of the storage vessel.

2. All records shall be retained for as long as the storage vessel remains in operation. Records shall be maintained in a manner that they can be readily accessed. Records may be maintained in a hard copy format or in a computer-readable format.

3. The permittee shall calculate and maintain records of the annual emissions of VOC from this emissions unit by using the emissions estimation methodologies provided in the most current version of AP-42, Section 5.2 "Transportation and Marketing of Petroleum Liquids" or the most updated version of USEPA's TANKS computer program. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions.

4. The permittee shall maintain records of the actual annual throughput of each liquid for this storage vessel.

IV. Reporting Requirements

1. The permittee shall submit a deviation (excursion) report that identifies any time an organic liquid material with a maximum true vapor pressure in excess of 0.5 psia is stored in this storage vessel.

2. If the permittee places, stores, or holds in this fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 psia, the permittee shall notify the Canton local air agency within 30 days of becoming aware of the occurrence.

3. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 1.61 tpy, the permittee shall also submit the actual annual throughput of each liquid, as stored required in section A.III.4, and the calculations required in section A.III.3.

V. Testing Requirements

1. Compliance with the emission control measure in section A.II.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Control Measure:

      This emissions unit shall be subject to the requirements of 40 CFR Part 60, Subpart Kb [Part 60.110b(c)] if the permittee stores organic liquids with a maximum true vapor pressure greater

than 3.5 KPa (0.5 psia). The permittee shall comply with 40 CFR Part 60, Subpart Kb by maintaining records as specified in 40 CFR Part 60.116b(a) and (b).

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.1.

b. Emission Limitation:

1.61 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in sections A.III.3 and A.III.4.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 550,000-gallon, fixed roof storage vessel for the storage of petroleum liquids with a true vapor pressure < 11 psia. This storage vessel is identified as tank number 253 (emissions unit T167) and is equipped with a submerged fill line and an internal floating roof. The storage vessel is also equipped with a vapor-type primary seal and a wiper-type secondary seal.	40 CFR Part 60, Subpart Kb	See section A.I.2.a.
	OAC rule 3745-21-09(L)	See section A.I.2.b.
	OAC rule 3745-31-05(A)(3) (PTI 15-1190)	5.36 tpy of volatile organic compounds (VOC) See sections A.I.2.c and A.I.2.d.

2. Additional Terms and Conditions

2.a The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

2.b The requirements specified by this rule are less stringent than the requirements established pursuant to 40 CFR Part 60, Subpart Kb.

2.c The permittee shall employ a submerged fill line for this storage vessel.

2.d The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

a. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside the storage vessel having a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

2. The internal floating roof shall be equipped with a closure device between the wall of the storage vessel and the edge of the internal floating roof. The closure device shall consist of two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

3. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and the rim space vents, is to provide a projection below the liquid surface.

4. Each opening in the internal floating roof except for the leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap), except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted, except when they are in use.

5. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

vi. Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

7. Each penetration of the internal floating roof used for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.

f. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

g. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections of the internal floating roof and its seals:

a. Visually inspect the internal floating roof, the primary seal, and the secondary seal prior to filling the storage vessel with volatile liquids. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the permittee shall repair the items before filling the storage vessel.

b. Visually inspect the vessel according to section A.III.1.c at least every 5 years or according to section A.III.1.d.

c. Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10% open area, the permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with volatile organic liquid.

d. Visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the liquid or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the permittee shall repair the items or empty and remove the vessel from service within 45 days. If a failure that is detected during the initial inspections required cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the administrator in the inspection report. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the permittee will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

b. In no event shall inspections occur at intervals greater than 10 years in the case of vessels conducting annual inspections as specified in section A.III.1.d and at intervals no greater than 5 years in the case of vessels specified in section A.III.1.c.

3. The permittee shall keep a record of each inspection performed in accordance with section A.III. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

4. The permittee shall maintain a record of the volatile organic liquid stored, the period of storage, and the maximum true vapor pressure of that volatile organic liquid during the respective storage period. Available data on the storage temperature may be used to determine the maximum true vapor pressure in accordance with the methods and procedures defined in 40 CFR Part 60.116b(e).

5. All records shall be retained for at least 2 years except as identified in section A.III.5. Records shall be maintained in a manner that they can be readily accessed within 24 hours. Records may be maintained in a hard copy format or in a computer-readable format. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.

6. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit, in either gallons/year or barrels/year.

G. The permittee shall calculate and maintain records of the annual VOC emissions from this emissions unit. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions of VOC by using the emissions estimation methodologies provided in the most current version of AP-42, section 5.1 "Transportation of Petroleum Liquids" or the most recent version of USEPA's TANKS computer program.

IV. Reporting Requirements

a. The permittee shall notify the Canton local air agency in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by section A.III.1.a or A.III.1.c to afford the agency the opportunity to have an observer present. If the inspection required by section A.III.1.c is not planned and the permittee could not have known about the inspection 30 days in advance of refilling the tank, the permittee shall notify the Canton local air agency at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Canton local air agency at least 7 days prior to the refilling.

2. The permittee shall report to the Canton local air agency any conditions described in section A.III.1.d that are detected during any annual inspection within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and the date of the repair. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR Part 61.112b(a)(1) or 40 CFR Part 60.113b(a)(3) and list each repair made.

3. The permittee shall furnish the Canton local air agency with a report that describes the control equipment and certifies that the control equipment meets the specifications of 40 CFR Part 60.112b(a)(1) and 40 CFR Part 60.113b(a)(1). This report shall be an attachment to the notification required by 40 CFR Part 60.7(a)(3).

4. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 5.36 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.6, and the calculations required in section A.III.7.

V. Testing Requirements

1. Compliance with the emission limitation and the control measure in sections A.I.1 and A.I.2.a of these terms and conditions shall be determined in accordance with the following methods:

a. Control Measure:

The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

b. Emission Limitation:

5.36 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in sections A.III.6 and A.III.7.

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

2. Additional Terms and Conditions

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 577,000-gallon fixed roof slop oil storage vessel identified as tank number 254 (emissions unit T168). It is also equipped with a submerged fill line.	40 CFR Part 60, Subpart Kb	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.II.1.
	OAC rule 3745-31-05(A)(3)	0.41 tpy of VOC
	(PTI 15-1235)	See section A.I.2.b.

2. Additional Terms and Conditions

2.a This emissions unit shall be subject to the requirements of 40 CFR Part 60, Subpart Kb [Part 60.110b(c)] if the permittee stores organic liquids with a maximum true vapor pressure greater than 3.5 KPa (0.5 psia). The permittee shall comply with 40 CFR Part 60, Subpart Kb by maintaining records as specified in 40 CFR Part 60.116b(a) and (b).

2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

a. This emissions unit is exempt from the terms and conditions of OAC rule 3745-21-09(L) as long as the permittee stores organic liquid material with a maximum true vapor pressure less than 1.52 psia.

2. The permittee shall employ a submerged fill line on this storage vessel.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records showing the type of material stored within the storage vessel, the dimensions of the storage vessel, the maximum true vapor pressure of the stored material, and an analysis showing the capacity of the storage vessel.

2. All records shall be retained for as long as the storage vessel remains in operation. Records shall be maintained in a manner that they can be readily accessed. Records may be maintained in a hard copy format or in a computer-readable format.

3. The permittee shall calculate and maintain records of the annual emissions of VOC from this emissions unit by using the emissions estimation methodologies provided in the most current version of AP-42, Section 5.2 "Transportation and Marketing of Petroleum Liquids" or the most updated version of USEPA's TANKS computer program. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions.

4. The permittee shall maintain records of the actual annual throughput of each liquid for this storage vessel.

IV. Reporting Requirements

1. The permittee shall submit a deviation (excursion) report that identifies any time an organic liquid material with a maximum true vapor pressure in excess of 0.5 psia is stored in this storage vessel.

2. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 0.41 tpy, the permittee shall also submit the actual annual throughput of each liquid, as stored required in section A.III.4, and the calculations required in section A.III.3.

3. If the permittee places, stores, or holds in this fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 psia, the permittee shall notify the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the emission control measure in section A.II.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Control Measure:

      This emissions unit shall be subject to the requirements of 40 CFR Part 60, Subpart Kb [Part 60.110b(c)] if the permittee stores organic liquids with a maximum true vapor pressure greater

than 3.5 KPa (0.5 psia). The permittee shall comply with 40 CFR Part 60, Subpart Kb by maintaining records as specified in 40 CFR Part 60.116b(a) and (b).

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.1.

b. Emission Limitation:

0.41 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in sections A.III.3 and A.III.4.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 1,180,000-gallon, fixed roof storage vessel for the storage of petroleum liquids with a true vapor pressure < 11 psia. This storage vessel is identified as tank number 62 (emissions unit T169) and is equipped with a submerged fill line and an internal floating roof. The storage vessel is also equipped with a vapor-type primary seal and a wiper-type secondary seal.	40 CFR Part 60, Subpart Kb	See section A.I.2.a.
	OAC rule 3745-21-09(L)	See section A.I.2.b.
	OAC rule 3745-31-05(A)(3) (PTI 15-1252)	2.9 tpy of volatile organic compounds (VOC) See sections A.I.2.c and A.I.2.d.

2. Additional Terms and Conditions

2.a The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

2.b The requirements specified by this rule are less stringent than the requirements established pursuant to 40 CFR Part 60, Subpart Kb.

2.c The permittee shall employ a submerged fill line for this storage vessel.

2.d The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

a. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside the storage vessel having a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

2. The internal floating roof shall be equipped with a closure device between the wall of the storage vessel and the edge of the internal floating roof. The closure device shall consist of two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

3. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and the rim space vents, is to provide a projection below the liquid surface.

4. Each opening in the internal floating roof except for the leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap), except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted, except when they are in use.

5. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

vi. Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

7. Each penetration of the internal floating roof used for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.

f. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

g. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections of the internal floating roof and its seals:

a. Visually inspect the internal floating roof, the primary seal, and the secondary seal prior to filling the storage vessel with volatile liquids. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the permittee shall repair the items before filling the storage vessel.

b. Visually inspect the vessel according to section A.III.1.c at least every 5 years or according to section A.III.1.d.

c. Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10% open area, the permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with volatile organic liquid.

d. Visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the liquid or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the permittee shall repair the items or empty and remove the vessel from service within 45 days. If a failure that is detected during the initial inspections required cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the administrator in the inspection report. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the permittee will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

b. In no event shall inspections occur at intervals greater than 10 years in the case of vessels conducting annual inspections as specified in section A.III.1.d and at intervals no greater than 5 years in the case of vessels specified in section A.III.1.c.

3. The permittee shall keep a record of each inspection performed in accordance with section A.III. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

4. The permittee shall maintain a record of the volatile organic liquid stored, the period of storage, and the maximum true vapor pressure of that volatile organic liquid during the respective storage period. Available data on the storage temperature may be used to determine the maximum true vapor pressure in accordance with the methods and procedures defined in 40 CFR Part 60.116b(e).

5. All records shall be retained for at least 2 years except as identified in section A.III.5. Records shall be maintained in a manner that they can be readily accessed within 24 hours. Records may be maintained in a hard copy format or in a computer-readable format. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.

6. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit, in either gallons/year or barrels/year.

G. The permittee shall calculate and maintain records of the annual VOC emissions from this emissions unit. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions of VOC by using the emissions estimation methodologies provided in the most current version of AP-42, section 5.1 "Transportation of Petroleum Liquids" or the most recent version of USEPA's TANKS computer program.

IV. Reporting Requirements

a. The permittee shall notify the Canton local air agency in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by section A.III.1.a or A.III.1.c to afford the agency the opportunity to have an observer present. If the inspection required by section A.III.1.c is not planned and the permittee could not have known about the inspection 30 days in advance of refilling the tank, the permittee shall notify the Canton local air agency at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Canton local air agency at least 7 days prior to the refilling.

2. The permittee shall report to the Canton local air agency any conditions described in section A.III.1.d that are detected during any annual inspection within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and the date of the repair. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR Part 61.112b(a)(1) or 40 CFR Part 60.113b(a)(3) and list each repair made.

3. The permittee shall furnish the Canton local air agency with a report that describes the control equipment and certifies that the control equipment meets the specifications of 40 CFR Part 60.112b(a)(1) and 40 CFR Part 60.113b(a)(1). This report shall be an attachment to the notification required by 40 CFR Part 60.7(a)(3).

4. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 2.9 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.6, and the calculations required in section A.III.7.

V. Testing Requirements

1. Compliance with the emission limitation and the control measure in sections A.I.1 and A.I.2.a of these terms and conditions shall be determined in accordance with the following methods:

a. Control Measure:

The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit according to the terms and conditions of this permit.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

b. Emission Limitation:

2.9 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in sections A.III.6 and A.III.7.

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

2. Additional Terms and Conditions

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 30,000-gallon ethanol storage vessel equipped with a fixed roof and identified as tank number 259 (emissions unit T170). It is also equipped with a submerged fill line.	40 CFR Part 60, Subpart Kb	See section A.III.1.
	OAC rule 3745-31-05(A)(3) (PTI 15-1327)	1.5 tpy of VOC See sections A.I.2.a and A.I.2.b.
	OAC rule 3745-21-09(L)(2)(a)	exempt See section A.I.2.c.

2. Additional Terms and Conditions

2.a The permittee shall employ a permanent submerged fill pipe.

2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part60, Subpart Kb.

2.c This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L)(1) because it is a fixed roof storage tank with a capacity less than 40,000 gallons.

II. Operational Restrictions

a. The permittee shall store only petroleum liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

b. The maximum annual throughput shall not exceed 10,950,000 gallons for this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records showing the type of material stored within the storage vessel, the dimensions of the storage vessel, the true vapor pressure of the stored material at maximum storage temperature, and an analysis showing the capacity of the storage vessel.

2. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit.

3. The permittee shall calculate and maintain records of the annual emissions of VOC from this emissions unit by using the emissions estimation methodologies provided in the most current version of AP-42, Section 5.2 "Transportation and Marketing of Petroleum Liquids" or the most updated version USEPA's TANKS computer program. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions.

4. All records shall be retained for as long as the storage vessel remains in operation. Records shall be maintained in a manner that they can be readily accessed. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a written deviation (excursion) report when the maximum true vapor pressure of the material stored in this storage vessel is greater than or equal to 3.5 KPa (0.5 psia).

2. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 1.5 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.2, and the calculations required in section A.III.3.

3. The permittee shall submit a deviation (excursion) report that identifies any time the throughput of this storage vessel exceeds 10,950,000 gallons.

V. Testing Requirements

1. Compliance with the emission limitation and control measures in sections A.I.1 and A.II.1 of these terms and conditions shall be determined in accordance with the following methods:

   a. Control Measure:

      The permittee shall store only petroleum liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

      Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

b. Emission Limitation:

1.5 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.3.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 30,000-gallon ethanol storage vessel equipped with a fixed roof and identified as tank number 260 (emissions unit T171). It is also equipped with a submerged fill line.	40 CFR Part 60, Subpart Kb	See section A.III.1.
	OAC rule 3745-31-05(A)(3) (PTI 15-1327)	1.5 tpy of VOC See sections A.I.2.a and A.I.2.b.
	OAC rule 3745-21-09(L)(2)(a)	exempt See section A.I.2.c.

2. Additional Terms and Conditions

2.a The permittee shall employ a permanent submerged fill pipe.

2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part60, Subpart Kb.

2.c This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L)(1) because it is a fixed roof storage tank with a capacity less than 40,000 gallons.

II. Operational Restrictions

a. The permittee shall store only petroleum liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

b. The maximum annual throughput shall not exceed 10,950,000 gallons for this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records showing the type of material stored within the storage vessel, the dimensions of the storage vessel, the true vapor pressure of the stored material at maximum storage temperature, and an analysis showing the capacity of the storage vessel.

2. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit.

3. The permittee shall calculate and maintain records of the annual emissions of VOC from this emissions unit by using the emissions estimation methodologies provided in the most current version of AP-42, Section 5.2 "Transportation and Marketing of Petroleum Liquids" or the most updated version USEPA's TANKS computer program. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions.

4. All records shall be retained for as long as the storage vessel remains in operation. Records shall be maintained in a manner that they can be readily accessed. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a written deviation (excursion) report when the maximum true vapor pressure of the material stored in this storage vessel is greater than or equal to 3.5 KPa (0.5 psia).

2. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 1.5 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.2, and the calculations required in section A.III.3.

3. The permittee shall submit a deviation (excursion) report that identifies any time the throughput of this storage vessel exceeds 10,950,000 gallons.

V. Testing Requirements

1. Compliance with the emission limitation and control measures in sections A.I.1 and A.II.1 of these terms and conditions shall be determined in accordance with the following methods:

   a. Control Measure:

      The permittee shall store only petroleum liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

b. Emission Limitation:

1.5 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.3.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 30,000-gallon slop oil storage vessel equipped with a fixed roof and identified as tank number 21 (emissions unit T172). It is also equipped with a submerged fill line.	40 CFR Part 60, Subpart Kb	See section A.III.1.
	OAC rule 3745-31-05(A)(3) (PTI 15-1359)	1.9 tpy of VOC See sections A.I.2.a and A.I.2.b.
	OAC rule 3745-21-09(L)(2)(a)	exempt See section A.I.2.c.

2. Additional Terms and Conditions

2.a The permittee shall employ a permanent submerged fill pipe.

2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part60, Subpart Kb.

2.c This emissions unit is exempt from the requirements of OAC rule 3745-21-09(L)(1) because it is a fixed roof storage tank with a capacity less than 40,000 gallons.

II. Operational Restrictions

a. The permittee shall store only petroleum liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

b. The maximum annual throughput shall not exceed 5,000,000 gallons for this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records showing the type of material stored within the storage vessel, the dimensions of the storage vessel, the true vapor pressure of the stored material at maximum storage temperature, and an analysis showing the capacity of the storage vessel.

2. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit.

3. The permittee shall calculate and maintain records of the annual emissions of VOC from this emissions unit by using the emissions estimation methodologies provided in the most current version of AP-42, Section 5.2 "Transportation and Marketing of Petroleum Liquids" or the most updated version USEPA's TANKS computer program. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions.

4. All records shall be retained for as long as the storage vessel remains in operation. Records shall be maintained in a manner that they can be readily accessed. Records may be maintained in a hard copy format or in computer-readable format.

IV. Reporting Requirements

1. The permittee shall submit a written deviation (excursion) report when the maximum true vapor pressure of the material stored in this storage vessel is greater than or equal to 3.5 KPa (0.5 psia).

2. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 1.9 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.2, and the calculations required in section A.III.3.

3. The permittee shall submit a deviation (excursion) report that identifies any time the throughput for this emissions unit exceeds 5,000,000 gallons.

V. Testing Requirements

1. Compliance with the emission limitation and control measures in sections A.I.1 and A.II.1 of these terms and conditions shall be determined in accordance with the following methods:

   a. Control Measure:

      The permittee shall store only petroleum liquids with a maximum true vapor pressure less than 3.5 KPa (0.5 psia) in this emissions unit.

      Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.1.

b. Emission Limitation:

1.9 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.3.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 40,570-gallon fixed roof ethanol storage vessel identified as tank number 268 (emissions unit T174). It is also equipped with a submerged fill line.	40 CFR Part 60, Subpart Kb	See section A.I.2.a.
	OAC rule 3745-21-09(L)	exempt
		See section A.II.1.
	OAC rule 3745-31-05(A)(3)	1.0 tpy of VOC
	(PTI 15-1235)	See section A.I.2.b.

2. Additional Terms and Conditions

2.a This emissions unit shall be subject to the requirements of 40 CFR Part 60, Subpart Kb [Part 60.110b(c)] if the permittee stores organic liquids with a maximum true vapor pressure greater than 3.5 KPa (0.5 psia). The permittee shall comply with 40 CFR Part 60, Subpart Kb by maintaining records as specified in 40 CFR Part 60.116b(a) and (b).

2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

a. This emissions unit is exempt from the terms and conditions of OAC rule 3745-21-09(L) as long as the permittee stores organic liquid material with a maximum true vapor pressure less than 1.52 psia.

2. The permittee shall employ a submerged fill line on this storage vessel.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records showing the type of material stored within the storage vessel, the dimensions of the storage vessel, the maximum true vapor pressure of the stored material, and an analysis showing the capacity of the storage vessel.

2. All records shall be retained for as long as the storage vessel remains in operation. Records shall be maintained in a manner that they can be readily accessed. Records may be maintained in a hard copy format or in a computer-readable format.

3. The permittee shall calculate and maintain records of the annual emissions of VOC from this emissions unit by using the emissions estimation methodologies provided in the most current version of AP-42, Section 5.2 "Transportation and Marketing of Petroleum Liquids" or the most updated version of USEPA's TANKS computer program. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions.

4. The permittee shall maintain records of the actual annual throughput of each liquid for this storage vessel.

IV. Reporting Requirements

1. The permittee shall submit a deviation (excursion) report that identifies any time an organic liquid material with a maximum true vapor pressure in excess of 0.5 psia is stored in this storage vessel.

2. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 1.0 tpy, the permittee shall also submit the actual annual throughput of each liquid, as stored required in section A.III.4, and the calculations required in section A.III.3.

3. If the permittee places, stores, or holds in this fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 psia, the permittee shall notify the Canton local air agency within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the emission control measure in section A.II.1 of these terms and conditions shall be determined in accordance with the following method:

   a. Control Measure:

      This emissions unit shall be subject to the requirements of 40 CFR Part 60, Subpart Kb [Part 60.110b(c)] if the permittee stores organic liquids with a maximum true vapor pressure greater

than 3.5 KPa (0.5 psia). The permittee shall comply with 40 CFR Part 60, Subpart Kb by maintaining records as specified in 40 CFR Part 60.116b(a) and (b).

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.1.

b. Emission Limitation:

1.0 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in sections A.III.3 and A.III.4.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
This emissions unit is a 533,400-gallon, fixed roof, storage vessel for the storage of petroleum liquids with a true vapor pressure < 11 psia. This storage vessel is identified as tank number 254 (emissions unit T175) and is equipped with a submerged fill line and an internal floating roof.	40 CFR Part 60, Subpart Kb	See section A.I.2.a.
	40 CFR Part 61, Subpart FF	See section A.I.2.b.
	OAC rule 3745-31-05(A)(3) (PTI 15-1406)	1.0 tpy of volatile organic compounds (VOC)
		See sections A.I.2.c and A.I.2.d.
	OAC rule 3745-21-09(L)	See section A.I.2.e.

2. Additional Terms and Conditions

2.a The permittee shall utilize an internal floating roof to control the emissions of VOC from this emissions unit as specified in these terms and conditions. Each internal floating roof shall be equipped with a metallic shoe seal closure device situated between the wall of the storage vessel and the edge of the internal floating roof. The mechanical shoe seal shall consist of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric shall span the annular space between the metal sheet and the floating roof.

2.b The permittee shall comply with the requirements of 40 CFR Part 60.112b(a)(1) as specified in these terms and conditions as an alternative to compliance with 40 CFR Part 61.343(Subpart FF), NESHAP for Benzene Waste Operations, Standards for Tanks, in accordance with 40 CFR Part 61.353(Subpart FF). By complying with 40 CFR Part 60.112b(a)(1), the permittee is exempt from the provisions of 40 CFR Part 61.343(Subpart FF), NESHAP for Benzene Waste Operations, Tank Standards.

2.c The permittee shall employ a submerged fill line on this storage vessel.

2.d The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L), 40 CFR Part 60, Subpart Kb, and 40 CFR Part 61, Subpart FF.

2.e The requirements specified by this rule are less stringent than the requirements established pursuant to 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

a. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside the storage vessel having a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

2. The internal floating roof shall be equipped with a closure device between the wall of the storage vessel and the edge of the internal floating roof. The closure device shall consist of a metallic shoe seal so that there is a continuous closure completely covering the space between the wall of the storage vessel and the edge of the internal floating roof. The mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the internal floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the internal floating roof.

3. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and the rim space vents, is to provide a projection below the liquid surface.

4. Each opening in the internal floating roof except for the leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap), except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted, except when they are in use.

5. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

vi. Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

7. Each penetration of the internal floating roof used for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.

f. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

g. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall conduct the following inspections of the internal floating roof and its seals:

   a. Visually inspect the internal floating roof, the primary seal, and the secondary seal prior to filling the storage vessel with volatile liquids. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the permittee shall repair the items before filling the storage vessel.

   b. Visually inspect the vessel according to section A.III.1.c at least every 5 years or according to section A.III.1.d.

   c. Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10% open area, the permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with volatile organic liquid.

   d. Visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the liquid or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the permittee shall repair the items or empty and remove the vessel from service within 45 days. If a failure that is detected during the initial inspections required cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the administrator in the inspection report. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the permittee will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

2. In no event shall inspections occur at intervals greater than 10 years in the case of vessels conducting annual inspections as specified in section A.III.1.d and at intervals no greater than 5 years in the case of vessels specified in section A.III.1.c.

3. The permittee shall keep a record of each inspection performed in accordance with section A.III. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

4. The permittee shall maintain a record of the volatile organic liquid stored, the period of storage, and the maximum true vapor pressure of that volatile organic liquid during the respective storage period. Available data on the storage temperature may be used to determine the maximum true vapor pressure in accordance with the methods and procedures defined in 40 CFR Part 60.116b(e).

5. All records shall be retained for at least 2 years except as identified in section A.III.5. Records shall be maintained in a manner that they can be readily accessed within 24 hours. Records may be maintained in a hard copy format or in a computer-readable format. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.

6. The permittee shall maintain records of the actual annual throughput of each liquid stored in this emissions unit, in either gallons/year or barrels/year.

7. The permittee shall calculate and maintain records of the annual VOC emissions from this emissions unit. The actual annual throughput(s) recorded for any calendar year shall be the basis for calculating the annual emissions of VOC by using the emissions estimation methodologies provided in the most current version of AP-42, section 5.1 "Transportation of Petroleum Liquids" or the most recent version of USEPA's TANKS computer program.

IV. Reporting Requirements

a. The permittee shall notify the Canton local air agency in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by section A.III.1.a or A.III.1.c to afford the agency the opportunity to have an observer present. If the inspection required by section A.III.1.c is not planned and the permittee could not have known about the inspection 30 days in advance of refilling the tank, the permittee shall notify the Canton local air agency at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Canton local air agency at least 7 days prior to the refilling.

2. The permittee shall report to the Canton local air agency any conditions described in section A.III.1.d that are detected during any annual inspection within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and the date of the repair. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR Part 61.112b(a)(1) or 40 CFR Part 60.113b(a)(3) and list each repair made.

3. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. Should the actual total VOC emissions exceed 1.0 tpy, the permittee shall also submit the actual annual throughput of each liquid stored, as required in section A.III.6, and the calculations required in section A.III.7.

V. Testing Requirements

1. Compliance with the emission limitation and the control measure in sections A.I.1 and A.I.2.a of these terms and conditions shall be determined in accordance with the following methods:

a. Control Measure:

The permittee shall utilize an internal floating roof equipped with seals as defined in 40 CFR Part 60.112b(a)(1)(ii) to control the emissions of VOC from this emissions unit as specified in these terms and conditions.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and record keeping requirements specified in section A.III.

b. Emission Limitation:

1.0 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in sections A.III.6 and A.III.7.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
south area cooling tower which processes approximately 20,800 gallons of non-contact water per minute	OAC rule 3745-17-11(B)	33.9 lbs/hr of particulate emissions See section A.I.2.a.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

2. Additional Terms and Conditions

2.a The total dissolved solids (TDS) present in cooling water drift is directly responsible for the formation of particulate emissions when the drift is discharged from a cooling tower. The process weight rate (PWR) used to determine the allowable particulate mass emission rate is the total tons of TDS processed per hour through the cooling tower. Based on the maximum TDS concentration for optimum cooling tower operation of 4500 mg/l and the cooling water maximum process flow rate of 20,800 gallons per minute, a PWR of 23.4 tons of TDS per hour was calculated. Using Table 1 in OAC rule 3745-17-11(B), the allowable particulate mass emission rate was determined to be 33.9 lbs/hr.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall test and record the TDS content, in mg/l, of the cooling water at least once per week. The TDS content shall be measured using method 2540 C, “Total Dissolved Solids Dried at 180 Degrees C” from the most recent edition of “Standard Methods for the Examination of Water and Wastewater” or an equivalent method approved by the Canton local air agency.

2. The permittee shall calculate and record the particulate emissions, in pounds per hour. The particulate emissions shall be calculated as follows:

   (20,800 gallons/minute) x (mg/liter TDS) x (0.0002) x (60 min/hr) x (3.785 liters/gallon) x (2.2046x10^-6 lbs/mg) = particulate emissions, in lbs/hr

   where:

   20,800 gallons/minute = the maximum water flow rate;
   mg/liter = the TDS level;
   0.0002 = the maximum drift loss factor;
   60 min/hr = conversion factor for minutes to hours;
   3.785 liters/gallon = conversion factor for liters to gallons; and
   2.2046x10^-6 lbs/mg = conversion factor for milligrams to pounds.

IV. Reporting Requirements

c. The permittee shall submit deviation reports in accordance with the general terms and conditions of this permit that identify any exceedances of the allowable mass emission limitation.

V. Testing Requirements

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

   a. Emission Limitation:

      33.9 lbs/hr of particulate emissions

      Applicable Compliance Method:

      Compliance shall be demonstrated by the monitoring and record keeping requirements specified in sections A.III.1 and A.III.2 of these terms and conditions. If required, the permittee shall conduct drift measurement testing to determine the drift factor for this cooling tower utilizing the "Isokinetic Drift Measurement Test Code for Water Cooling Towers", ATC-140(94), June, 1994 (or the most recent edition) from the Cooling Technology Institute.

   2. Emission Limitation:

      20% opacity as a 6-minute average

      Applicable Compliance Method:

If required, the permittee shall conduct visible particulate emission observations in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 9.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Emissions Unit ID: Z016

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
north area cooling tower which processes approximately 19,200 gallons of non-contact water per minute	OAC rule 3745-17-11(B)	32.0 lbs/hr of particulate emissions See section A.I.2.a.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

2. Additional Terms and Conditions

2.a The total dissolved solids (TDS) present in cooling water drift is directly responsible for the formation of particulate emissions when the drift is discharged from a cooling tower. The process weight rate (PWR) used to determine the allowable particulate mass emission rate is the total tons of TDS processed per hour through the cooling tower. Based on the maximum TDS concentration for optimum cooling tower operation of 4500 mg/l and the cooling water maximum process flow rate of 19,200 gallons per minute, a PWR of 22.5 tons of TDS per hour was calculated. Using Table 1 in OAC rule 3745-17-11(B), the allowable particulate mass emission rate was determined to be 32.0 lbs/hr.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall test and record the TDS content, in mg/l, of the cooling water at least once per week. The TDS content shall be measured using method 2540 C, “Total Dissolved Solids Dried at 180 Degrees C” from the most recent edition of “Standard Methods for the Examination of Water and Wastewater” or an equivalent method approved by the Canton local air agency.

2. The permittee shall calculate and record the particulate emissions, in pounds per hour. The particulate emissions shall be calculated as follows:

   (19,200 gallons/minute) x (mg/liter TDS) x (0.0002) x (60 min/hr) x (3.785 liters/gallon) x (2.2046x10^-6 lbs/mg) = particulate emissions, in lbs/hr

   where:

   19,200 gallons/minute = the maximum water flow rate;
   mg/liter = the TDS level;
   0.0002 = the maximum drift loss factor;
   60 min/hr = conversion factor for minutes to hours;
   3.785 liters/gallon = conversion factor for liters to gallons; and
   2.2046x10^-6 lbs/mg = conversion factor for milligrams to pounds.

IV. Reporting Requirements

c. The permittee shall submit deviation reports in accordance with the general terms and conditions of this permit that identify any exceedances of the allowable mass emission limitation.

V. Testing Requirements

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

   a. Emission Limitation:

      32.0 lbs/hr of particulate emissions

      Applicable Compliance Method:

      Compliance shall be demonstrated by the monitoring and record keeping requirements specified in sections A.III.1 and A.III.2 of these terms and conditions. If required, the permittee shall conduct drift measurement testing to determine the drift factor for this cooling tower utilizing the "Isokinetic Drift Measurement Test Code for Water Cooling Towers", ATC-140(94), June, 1994 (or the most recent edition) from the Cooling Technology Institute.

2. Emission Limitation:

   20% opacity as a 6-minute average

   Applicable Compliance Method:

If required, the permittee shall conduct visible particulate emission observations in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 9.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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