



State of Ohio Environmental Protection Agency

**RE: DRAFT PERMIT TO INSTALL
ALLEN COUNTY**

CERTIFIED MAIL

Street Address:

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

Mailing Address:

Lazarus Gov. Center

Application No: 03-13434

DATE: 1/22/2004

Premcor Refining Group, Inc.
Gary Vonderembse
1150 S. Metcalf Street
Lima, OH 45804

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

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$2400** will be due. Please do not submit any payment now.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Very truly yours,

Michael W. Ahern

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA NWDO Lima-Allen Reg Planning Commission IN



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install
Terms and Conditions**

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

DRAFT PERMIT TO INSTALL 03-13434

Application Number: 03-13434
APS Premise Number: 0302020012
Permit Fee: **To be entered upon final issuance**
Name of Facility: Premcor Refining Group, Inc.
Person to Contact: Gary Vonderembse
Address: 1150 S. Metcalf Street
Lima, OH 45804

Location of proposed air contaminant source(s) [emissions unit(s)]:

**1150 South Metcalf Street
Lima, Ohio**

Description of proposed emissions unit(s):

Petroleum oil refinery.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Premcor Refining Group, Inc.

Facility ID: 0302020012

PTI Application: 03-13434

Issued: To be entered upon final issuance

Part I - GENERAL TERMS AND CONDITIONS

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

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.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or record keeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and 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 made to the appropriate Ohio EPA District Office or local air agency. 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. See B.9 below if no deviations occurred during the quarter.

Premcor Refining Group, Inc.

Facility ID: 0302020012

PTI Application: 03-13434

Issued: To be entered upon final issuance

- 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. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
- iv. 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.

2. Scheduled Maintenance/Malfunction Reporting

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

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

3. Risk Management Plans

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

4. Title IV Provisions

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

5. Severability Clause

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A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and 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. 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.

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit To Install fees within 30 days after the issuance of this Permit To Install.

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any 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

Premcor Refining Group, Inc.

Facility ID: 0302020012

PTI Application: 03-13434

Issued: To be entered upon final issuance

shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Premcor Refining Group, Inc.

PTI Application: 03-13434

Issued: To be entered upon final issuance

Facility ID: 0302020012

10. Permit To Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

11. Best Available Technology

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

12. Air Pollution Nuisance

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

Premcor Refining Group, Inc.

Facility ID: 0302020012

PTI Application: 03-13434

Issued: To be entered upon final issuance

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

1. Compliance Requirements

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

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and 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.)

3. Permit Transfers

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

4. Termination of Permit To Install

This permit to install shall terminate within eighteen months of the effective date of the permit to install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may

Premcor Refining Group, Inc.

Facility ID: 0302020012

PTI Application: 03-13434

Issued: To be entered upon final issuance

be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

5. Construction of New Sources(s)

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

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

6. Public Disclosure

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

7. Applicability

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

8. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the

Premcor Refining Group, Inc.

Facility ID: 0302020012

PTI Application: 03-13434

Issued: To be entered upon final issuance

facility has been constructed in accordance with the Permit To Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

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

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The 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.

C. Permit To Install Summary of Allowable Emissions

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
VOC	21.16

Premcor Refining Group, Inc.

PTI Application: 03-13434

Issued: To be entered upon final issuance

Facility ID: 0302020012

Premcor Refining Group, Inc.

PTI Application: 02 12424

Issued

Facility ID: 0302020012

Emissions Unit ID: T212

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

Facility specific terms and conditions have been incorporated into Part III - special terms and conditions for specific emissions units which are affected.

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

None

Premc

PTI A

Emissions Unit ID: T212

Issued: To be entered upon final issuance**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
T212 - above ground internal floating roof tank (592,178 gallons)	OAC rule 3745-31-05(A)(3)	7.35 tons of volatile organic compounds (VOC)/yr
	OAC rule 3745-21-09(L)	See A.I.2.o and A.I.2.p
	40 CFR 60 Subpart Kb	See A.I.2.a through A.I.2.d and A.III.1
	40 CFR 60.112b	See A.I.2.e through A.I.2.m
	40 CFR 60.113b	See A.III.2 through A.III.5 and A.IV.1
	40 CFR 60.115b	See A.III.6, A.III.7, and A.IV.2 through A.IV.5
	40 CFR 60.116b	See A.III.8 through A.III.10, and A.IV.5
	40 CFR 61 Subpart FF	Control requirements, monitoring and/or record keeping requirements, and reporting requirements are satisfied by the requirements in 40 CFR 60 Subpart Kb
	40 CFR 63 Subpart CC	Overlap of subpart CC with other regulations for storage vessels - if subject to the provisions of 40 CFR subpart Kb, required to comply only with the
	40 CFR 63.640(n)(1)	

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requirements of 40 CFR

subpart Kb

2. Additional Terms and Conditions

- 2.a** The maximum true vapor pressure of organic liquid stored in this storage tank shall not exceed 11.1 psia.
- 2.b** The fixed roof storage tank shall be equipped with an internal floating roof.
- 2.c** The automatic bleeder vents shall be closed at all times, except when the roof is floated off or landed on the roof leg supports; and the rim vents, if provided, shall be set to open when the roof is being floated off the roof leg supports or is at the manufacturer's recommended setting.
- 2.d** All openings, except stub drains, shall be equipped with a cover, seal or lid, which is in the closed position at all times, except when in actual use for tank gauging or sampling.
- 2.e** The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has 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.f** Each internal floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof:
- i. A foam- or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal). A liquid-mounted seal means a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank.
 - ii. 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.
 - iii. A mechanical shoe seal. 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 (envelope) spans the annular space between the metal sheet and the floating roof.

- 2.g** 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.
- 2.h** 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 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.
- 2.i** 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.
- 2.j** 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.
- 2.k** Each penetration of the internal floating roof 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.
- 2.l** 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.
- 2.m** Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.
- 2.n** The storage tank was installed in 1985 and modified (as specified by 40 CFR Part 63, Subpart CC) on June 1, 1992, and stores organic liquids with a maximum true vapor pressure of 11.1 psia.
- This is a Group 1 storage vessel (at an existing source, capacity greater than or equal 177 cubic meters (46,758 gallons), stored-liquid maximum true vapor pressure greater than or equal to 10.4 kPa (1.51 psia), and annual average HAP concentration greater than 4% by weight total organic HAP).
- 2.o** Best available technology (BAT) control requirements for this emissions unit has been determined to be use of submerged fill.
- 2.p** The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L), 40 CFR 60 Subpart Kb, 40 CFR 61 Subpart FF, and 40 CFR 63 Subpart CC.

II. Operational Restrictions

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None

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain records of the following information:

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

Available data on the storage temperature may be used to determine the maximum true vapor pressure as in the following:

- i. For vessels operated above or below ambient temperatures, the maximum true vapor pressure is calculated based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service.
- ii. For crude oil or refined petroleum products the vapor pressure may be obtained by the following:
 - (1) Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar-month average temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 (incorporated by reference--see Sec. 60.17), unless the Administrator specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).
 - (2) The true vapor pressure of each type of crude oil with a Reid vapor pressure less than 13.8 kPa or with physical properties that preclude determination by the recommended method is to be determined from available data and recorded if the estimated maximum true vapor pressure is greater than 3.5 kPa.

- iii. For other liquids, the vapor pressure:
 - (1) May be obtained from standard reference texts, or
 - (2) Determined by ASTM Method D2879-83 (incorporated by reference--see Sec. 60.17); or
 - (3) Measured by an appropriate method approved by the Administrator; or
 - (4) Calculated by an appropriate method approved by the Administrator.
- c. The annual throughput of any petroleum liquid stored in the tank
2. Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. 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.
3. For vessels equipped with a liquid-mounted or mechanical shoe primary seal, 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 VOL inside the storage vessel, 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 storage vessel from service within 45 days. If a failure that is detected during inspections required in this paragraph 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 required in A.IV.3. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.
4. For vessels equipped with a double-seal system as specified in A.I.2.f.ii.:
 - a. Visually inspect the vessel as specified in A.III.5. at least every 5 years; or
 - b. Visually inspect the vessel as specified in A.III.3.
5. Visually inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), 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 percent 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 VOL. In no event shall inspections conducted in accordance with

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this provision occur at intervals greater than 10 years in the case of vessels conducting the annual visual inspection as specified in A.III.3 and A.III.4.b and at intervals no greater than 5 years in the case of vessels specified in A.III.4.a.

6. The permittee shall keep copies of all reports and records required in A.IV.2, A.IV.3, and A.IV.4, for at least 2 years.
7. Keep a record of each inspection performed as required by A.III.2, A.III.3, A.III.4, and A.III.5. 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).
8. The permittee shall keep copies of all records required by A.III.2 through A.III.10, excluding A.III.9, for at least 2 years.
9. The permittee shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel (shall be kept for the life of the source).
10. The permittee of each vessel storing a waste mixture of indeterminate or variable composition shall be subject to the following requirements.
 - a. Prior to the initial filling of the vessel, the highest maximum true vapor pressure for the range of anticipated liquid compositions to be stored will be determined using the methods described in A.III.1.b.
 - b. For vessels in which the vapor pressure of the anticipated liquid composition is above 76.6 kPa (11.1 psia), an initial physical test of the vapor pressure is required; and a physical test at least once every 6 months thereafter is required as determined by the following methods:
 - i. ASTM Method D2879-83 (incorporated by reference--see 40 CFR. 60.17); or
 - ii. ASTM Method D323-82 (incorporated by reference--see 40 CFR 60.17); or
 - iii. As measured by an appropriate method as approved by the Administrator.

IV. Reporting Requirements

1. Notify the Administrator in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by A.III.2 and A.III.5 to afford the Administrator the opportunity to have an observer present. If the inspection required by A.III.5 is not planned and

Emissions Unit ID: T212

the permittee could not have known about the inspection 30 days in advance or refilling the tank, the permittee shall notify the Administrator 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 Administrator at least 7 days prior to the refilling.

2. Furnish the Administrator with a report that describes the control equipment and certifies that the control equipment meets the specifications of A.I.2.e through A.I.2.m and A.III.2. This report shall be an attachment to the notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date.
3. If any of the conditions described in A.III.3 are detected during the annual visual inspection required by A.III.3, a report shall be furnished to the Administrator 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 date the repair was made.
4. After each inspection required by A.III.4 that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in A.III.4.b, a report shall be furnished to the Administrator within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of A.I.2.e through A.I.2.m or A.III.4 and list each repair made.
5. The permittee of each storage vessel either with a design capacity greater than or equal to 151 cubic meters storing a liquid with a maximum true vapor pressure that is normally less than 5.2 kPa (0.75 psia) or with a design capacity greater than or equal to 75 cubic meters but less than 151 cubic meters storing a liquid with a maximum true vapor pressure that is normally less than 27.6 kPa (4.0 psia) shall notify the Administrator within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range.

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:

7.35 tons of VOC/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance by working and breathing loss calculations as determined by the U.S. EPA Tanks 4.0 program.

Premcor Refining Group, Inc.**PTI Application: 02-12424****Issued****Facility ID: 0302020012**Emissions Unit ID: **T212****VI. Miscellaneous Requirements**

The special terms and conditions for this emissions unit identify specific applicable emissions limitations/control measures, monitoring and record keeping, and reporting associated with OAC rule 3745-21-09(L), 40 CFR Part 60 Subpart Kb, 40 CFR Part 61 Subpart FF, and 40 CFR Part 63 Subpart CC. The permittee may comply with other applicable emissions limitations/control measures, monitoring and record keeping, and reporting as provided for by these rules as long as any change would not constitute a modification as defined in OAC rule 3745-31-01.

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PTI A

Emissions Unit ID: T212

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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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
T212 - above ground internal floating roof tank (592,178 gallons)	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
T213 - above-ground, fixed roof tank with a capacity of 70,476 gallons	OAC rule 3745-31-05(A)(3)	6.43 tons of volatile organic compounds (VOC)/yr
		See A.I.2.b and A.I.2.c
	OAC rule 3745-21-09(L)	Exempt, see A.II.1
	40 CFR Part 60, Subpart Ka	See A.III.2 through A.III.5
	40 CFR Part 63, Subpart CC	See A.I.2.a and A.II.1

2. Additional Terms and Conditions

- 2.a The storage tank was installed in 1979 with no modifications as specified by 40 CFR Part 63, Subpart CC, and stores organic liquids with a maximum true vapor pressure of 1.50 psia.

Based on the operational restriction in A.II.1, this storage tank is a Group 2 storage vessel, as defined in 40 CFR 63.641 [storage vessel at an existing source with a stored-liquid maximum true vapor pressure less than 10.4 kPa (1.51 psia)]; therefore, it is exempt from the requirements of Subpart CC.

- 2.b Best available technology (BAT) control requirements for this emissions unit has been determined to be use of submerged fill.

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- 2.c The requirements of this rule also include compliance with the requirements of OAC rule 40 CFR 60 Subpart Ka, and 40 CFR 63 Subpart CC.

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain records of the following information:
 - a. The types of petroleum liquids stored in the tank.
 - b. The maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.
 - c. The annual throughput of any petroleum liquid stored in the tank.
2. Each permittee shall keep copies of all applicable reports and records required by this permit for at least 5 years except as otherwise specified in this permit. All applicable records shall be maintained in such a manner that they can be readily accessed within 24 hours. Records may be maintained in hard copy or computer-readable form including, but not limited to, on paper, microfilm, computer, floppy disk, magnetic tape, or microfiche.
3. Except as provided in section A.III.5, the permittee shall maintain a record of each petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period.
4. Available data on the typical Reid vapor pressure and the maximum expected storage temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517, unless the Administrator or Director specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).
5. The true vapor pressure of each type of crude oil with a Reid vapor pressure less than 13.8 kPa (2.0 psia) or whose physical properties preclude determination by the recommended method is to be determined from available data and recorded if the estimated true vapor pressure is greater

than 6.9 kPa (1.0 psia).

6. The permittee is exempt from the requirements of sections A.III.2 through A.III.4 if the storage tank stores only petroleum liquids with Reid vapor pressures of less than 6.9 kPa (1.0 psia), provided the maximum true vapor pressures of the petroleum liquids do not exceed 6.9 kPa (1.0 psia).

IV. Reporting Requirements

1. If the permittee places, stores, or holds in the fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute, the permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence.

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:

6.43 tons of VOC/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance by working and breathing loss calculations as determined by the U.S. EPA Tanks 4.0 program.

VI. Miscellaneous Requirements

The special terms and conditions for this emissions unit identify specific applicable emissions limitations/control measures, monitoring and Record keeping, and reporting associated with OAC rule 3745-21-09(L), 40 CFR Part 60 Subpart Ka, and 40 CFR Part 63 Subpart CC. The permittee may comply with other applicable emissions limitations/control measures, monitoring and Record keeping, and reporting as provided for by these rules as long as any change would not constitute a modification as defined in OAC rule 3745-31-01.

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PTI A

Emissions Unit ID: T213

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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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
T213 - above-ground, fixed roof tank with a capacity of 70,476 gallons	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
T214 - above-ground, fixed roof tank with a capacity of 70,476 gallons	OAC rule 3745-31-05(A)(3)	6.43 tons of volatile organic compounds (VOC)/yr See A.I.2.b and A.I.2.c
	OAC rule 3745-21-09(L)	Exempt, see A.II.1
	40 CFR Part 60, Subpart Ka	See A.III.2 through A.III.5
	40 CFR Part 63, Subpart CC	See A.I.2.a and A.II.1

2. Additional Terms and Conditions

- 2.a The storage tank was installed in 1979 with no modifications as specified by 40 CFR Part 63, Subpart CC, and stores organic liquids with a maximum true vapor pressure of 1.50 psia.

Based on the operational restriction in A.II.1, this storage tank is a Group 2 storage vessel, as defined in 40 CFR 63.641 [storage vessel at an existing source with a stored-liquid maximum true vapor pressure less than 10.4 kPa (1.51 psia)]; therefore, it is exempt from the requirements of Subpart CC.

- 2.b Best available technology (BAT) control requirements for this emissions unit has been determined to be use of submerged fill.
- 2.c The requirements of this rule also include compliance with the requirements of OAC rule

40 CFR 60 Subpart Ka, and 40 CFR 63 Subpart CC.

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain records of the following information:
 - a. The types of petroleum liquids stored in the tank.
 - b. The maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.
 - c. The annual throughput of any petroleum liquid stored in the tank.
2. Each permittee shall keep copies of all applicable reports and records required by this permit for at least 5 years except as otherwise specified in this permit. All applicable records shall be maintained in such a manner that they can be readily accessed within 24 hours. Records may be maintained in hard copy or computer-readable form including, but not limited to, on paper, microfilm, computer, floppy disk, magnetic tape, or microfiche.

Except as provided in section A.III.5, the permittee shall maintain a record of each petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period.

3. Available data on the typical Reid vapor pressure and the maximum expected storage temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517, unless the Administrator or Director specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).
4. The true vapor pressure of each type of crude oil with a Reid vapor pressure less than 13.8 kPa (2.0 psia) or whose physical properties preclude determination by the recommended method is to be determined from available data and recorded if the estimated true vapor pressure is greater than 6.9 kPa (1.0 psia).
5. The permittee is exempt from the requirements of sections A.III.2 through A.III.4 if the storage tank stores only petroleum liquids with Reid vapor pressures of less than 6.9 kPa (1.0 psia),

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provided the maximum true vapor pressures of the petroleum liquids do not exceed 6.9 kPa (1.0 psia).

IV. Reporting Requirements

1. If the permittee places, stores, or holds in the fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute, the permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence.

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:

6.43 tons of VOC/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance by working and breathing loss calculations as determined by the U.S. EPA Tanks 4.0 program.

VI. Miscellaneous Requirements

The special terms and conditions for this emissions unit identify specific applicable emissions limitations/control measures, monitoring and Record keeping, and reporting associated with OAC rule 3745-21-09(L), 40 CFR Part 60 Subpart Ka, and 40 CFR Part 63 Subpart CC. The permittee may comply with other applicable emissions limitations/control measures, monitoring and Record keeping, and reporting as provided for by these rules as long as any change would not constitute a modification as defined in OAC rule 3745-31-01.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
T214 - above-ground, fixed roof tank with a capacity of 70,476 gallons	None	None

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
T217 - above-ground, fixed roof tank with a capacity of 4,478,655 gallons, controlled by a thermal oxidizer	OAC rule 3745-31-05(A)(3)	0.11 lb of volatile organic compounds (VOC)/hr 0.48 ton VOC/yr
	OAC rule 3745-21-09(L)	See A.I.2.f and A.I.2.g
	40 CFR Part 60, Subpart Ka	Exempt, see A.II.1.
	40 CFR Part 63, Subpart CC	See A.III.2 through A.III.5.
	40 CFR Part 61, Subpart FF	See A.I.2.b, A.I.2.f and A.III.7.
		See A.I.2.c through A.I.2.d, and A.III.6., and A.III.8 through A.III.9

2. Additional Terms and Conditions

- 2.a The storage tank was installed in 1982 with no modifications as specified by 40 CFR Part 63, Subpart CC, and stores refinery wastewater with a maximum true vapor pressure of 1.50 psia.

This is a Group 1 storage vessel (at an existing source, capacity greater than or equal 177 cubic meters (46,758 gallons), with annual average HAP concentration greater than 4% by weight total organic HAP).

31

Premc

PTI A

Emissions Unit ID: **T217**

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2.b [40 CFR 63.640(n)(5)]

A Group 1 storage vessel that is also subject to the provisions of 40 CFR part 60, subpart Ka is required to only comply with the provisions of this subpart.

2.c [40 CFR 61.343] Standards: Tanks

- i. Except as provided in paragraph (b) of this section and in 40 CFR 61.351, the permittee shall meet the following standards for each tank in which the waste stream is placed in accordance with 40 CFR 61.342 (c)(1)(ii). The standards in this section apply to the treatment of the waste stream in a tank, including dewatering.
 - (1) The permittee shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.
 - (a) The fixed-roof shall meet the following requirements:
 - (i) 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) 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 tank 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 tank is maintained at a pressure less than atmospheric pressure, then paragraph (a)(1)(i)(B) 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 40 CFR 61.355(h); and
 - 3) The pressure is monitored continuously to ensure that the pressure in the tank remains below atmospheric pressure.

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- (b) The closed-vent system and control device shall be designed and operated in accordance with the requirements of 40 CFR 61.349 of this subpart.

- 2.d** [40 CFR 61.343(d)]
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 45 calendar days after identification.

- 2.e** [40 CFR 63.647(a)]
Each permittee of a Group 1 wastewater stream shall comply with the requirements of 40 CFR 61.340 through 61.355 of 40 CFR part 61, subpart FF for each process wastewater stream that meets the definition in 40 CFR 63.641.

- 2.f** Best available technology (BAT) control requirements for this emissions unit has been determined to be the routing of tank emissions to the same thermal oxidizer which controls emissions unit P025. The thermal oxidizer controlling emissions unit P025 is required to comply with 40 CFR Part 61, Subpart FF: Closed-vent Systems and Control Devices [40 CFR 61.349], Section A.44

- 2.g** The requirements of this rule also include compliance with the requirements of OAC rule 40 CFR 60 Subpart Ka, 40 CFR 63 Subpart CC, and 40 CFR Part 61, Subpart FF.

II. Operational Restrictions

- 1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute.

III. Monitoring and/or Record keeping Requirements

- 1. The permittee shall maintain records of the following information:
 - a. The types of petroleum liquids stored in the tank.
 - b. The maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.
 - c. The annual throughput of any petroleum liquid stored in the tank.

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2. Each permittee shall keep copies of all applicable reports and records required by this permit for at least 5 years except as otherwise specified in this permit. All applicable records shall be maintained in such a manner that they can be readily accessed within 24 hours. Records may be maintained in hard copy or computer-readable form including, but not limited to, on paper, microfilm, computer, floppy disk, magnetic tape, or microfiche.

Except as provided in section A.III.5, the permittee shall maintain a record of each petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period.

3. Available data on the typical Reid vapor pressure and the maximum expected storage temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517, unless the Administrator or Director specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).
4. The true vapor pressure of each type of crude oil with a Reid vapor pressure less than 13.8 kPa (2.0 psia) or whose physical properties preclude determination by the recommended method is to be determined from available data and recorded if the estimated true vapor pressure is greater than 6.9 kPa (1.0 psia).
5. The permittee is exempt from the requirements of sections A.III.2 through A.III.4 if the storage tank stores only petroleum liquids with Reid vapor pressures of less than 6.9 kPa (1.0 psia), provided the maximum true vapor pressures of the petroleum liquids do not exceed 6.9 kPa (1.0 psia).
6. [40 CFR 61.343(c)]
Each fixed-roof, seal, access door, 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 doors and other openings are closed and gasketed properly.

If a bypass line exists that could divert the vent stream from the control device, the permittee shall inspect the valve at least once per month to ensure that the vent stream is not diverted through the bypass line. The permittee shall visually inspect the flow monitoring device that is required by 40 CFR 61.349(a)(1)(ii) at least once per operating day to check that vapors are routed to the control device as required.

7. [40 CFR 63.654(a)]
Each permittee subject to the wastewater provisions in 40 CFR 63.647 shall comply with the record keeping provisions in 40 CFR 61.356 of 40 CFR part 61, subpart FF. There are no

additional record keeping requirements for wastewater under this subpart.

8. [40 CFR 61.356(g)]
The permittee shall maintain a record for each visual inspection required by 40 CFR 61.343 through 61.347 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.

9. [40 CFR 61.356(h)]
The permittee shall maintain a record for each test of no detectable emissions required by 40 CFR 61.343 through 61.347 and 40 CFR 61.349 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.

IV. Reporting Requirements

1. If the permittee places, stores, or holds in the fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute, the permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence.

2. [40 CFR 63.654(a)]
Each permittee subject to the wastewater provisions in 40 CFR 63.647 shall comply with the reporting provisions in 40 CFR 61.357 of 40 CFR part 61, subpart FF. There are no additional reporting requirements for wastewater under this subpart.

3. [40 CFR 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 (d)(1) of this section, the permittee shall submit quarterly to the Administrator a certification that all of the required inspections have been carried out in accordance with the requirements of this subpart.

4. [40 CFR 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 (d)(1) of this section, the permittee shall submit annually to the Administrator a report that summarizes all inspections required by 40 CFR 61.343 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.

V. Testing Requirements

1. The permittee shall conduct an annual test of the cover and all openings for no detectable emissions (less than 500 ppmv) using the following test methods and procedures:
 - a. [40 CFR 61.355(h)]

The permittee shall test equipment for compliance with no detectable emissions as required in 40 CFR 61.343 of this subpart in accordance with the following requirements:

 - i. Monitoring shall comply with Method 21 from appendix A of 40 CFR part 60.
 - ii. The detection instrument shall meet the performance criteria of Method 21.
 - iii. The instrument shall be calibrated before use on each day of its use by the procedures specified in Method 21.
 - iv. Calibration gases shall be:
 - (1) Zero air (less than 10 ppm of hydrocarbon in air); and
 - (2) 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. The background level shall be determined as set forth in Method 21.
 - vi. The instrument probe shall be traversed around all potential leak interfaces as close as possible to the interface as described in Method 21.
 - vii. The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared to 500 ppm for determining compliance.
 - b. Emission Limitation:

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0.11 lb of VOC/hr

Applicable Compliance Method:

The emission limitation was developed by applying a 98% control efficiency for use of a thermal oxidizer to working and breathing loss calculations as determined by the U.S. EPA Tanks 4.0 program. If required, the permittee shall demonstrate compliance with the hourly emission limitation by conducting emission testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 18, 25, or 25A, as appropriate.

c. Emission Limitation:

0.48 ton of VOC/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance by applying a 98% control efficiency for use of a thermal oxidizer to working and breathing loss calculations as determined by the U.S. EPA Tanks 4.0 program.

VI. Miscellaneous Requirements

The special terms and conditions for this emissions unit identify specific applicable emissions limitations/control measures, monitoring and Record keeping, and reporting associated with OAC rule 3745-21-09(L), 40 CFR Part 60 Subpart Ka, 40 CFR Part 61 Subpart FF, and 40 CFR Part 63 Subpart CC. The permittee may comply with other applicable emissions limitations/control measures, monitoring and Record keeping, and reporting as provided for by these rules as long as any change would not constitute a modification as defined in OAC rule 3745-31-01.

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PTI A

Emissions Unit ID: T217

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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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
T217 - above-ground, fixed roof tank with a capacity of 4,478,655 gallons, controlled by a thermal oxidizer	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Premcor Refining Group, Inc.

PTI Application: 02 12424

Issued

Facility ID: 0302020012

Emissions Unit ID: T217

Issued: To be entered upon final issuance

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
T219 - above-ground, fixed roof storage tank with a capacity of 22,000 gallons	OAC rule 3745-31-05(A)(3)	0.47 ton of volatile organic compounds (VOC)/yr
	OAC rule 3745-21-09(L)(2)(a)	Exempt
	See A.I.2.a	Exempt
	40 CFR Part 63, Subpart CC	See A.I.2.b

2. Additional Terms and Conditions

- 2.a 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.
- 2.b The storage tank was installed in 1974 with no modifications as specified by 40 CFR Part 63, Subpart CC, and stores organic liquids with a maximum true vapor pressure of 1.50 psia.

This emissions unit is a Group 2 storage vessel, as defined in 40 CFR 63.641[i.e., storage vessel at an existing source with a stored-liquid maximum true vapor pressure less than 10.4 kPa (1.51 psia)]; therefore, it is exempt from the requirements of 40 CFR Part 63, Subpart CC.

II. Operational Restrictions

Issued: To be entered upon final issuance

None

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain records of the following information:
 - a. The types of petroleum liquids stored in the tank.
 - b. The maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid.
 - c. The annual throughput of any petroleum liquid stored in the tank.

IV. Reporting Requirements

None

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:

0.47 ton of VOC/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance by working and breathing loss calculations as determined by the U.S. EPA Tanks 4.0 program.

VI. Miscellaneous Requirements

None

Premc
PTI A

Emissions Unit ID: T219

Issued: To be entered upon final issuance

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
T219 - above-ground, fixed roof storage tank with a capacity of 22,000 gallons	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

NEW SOURCE REVIEW FORM B

PTI Number: 03-13434 Facility ID: 0302020012

FACILITY NAME The Premcor Refining Group, Inc.

FACILITY DESCRIPTION Petroleum oil refinery CITY/TWP Lima

SIC CODE 2911 SCC CODE 4-03-011-50 refinery wastewater EMISSIONS UNIT ID T212

EMISSIONS UNIT DESCRIPTION Outdoor internal floating roof storage tank for refinery wastewater with a capacity of 592,178 gallons.

DATE INSTALLED 1/85

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment		7.35 tons/year		7.35 tons/year
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR 60 Subpart Kb NESHAP? 40 CFR 63 Subpart CC, 40 CFR Subpart FF PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?
Enter Determination Use of submerged fill, compliance with 40 CFR 60 Subpart Kb, 40 CFR 61 Subpart FF, 40 CFR 63 Subpart CC, OAC rule 3745-21-09(L)

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ None

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? YES X NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 03-13434 Facility ID: 0302020012

FACILITY NAME The Premcor Refining Group, Inc.

FACILITY DESCRIPTION Petroleum oil refinerv CITY/TWP Lima

Emissions Unit ID: T219

SIC CODE 2911 SCC CODE 4-03-010-99 naphthenic spent caustic tank EMISSIONS UNIT ID T213

EMISSIONS UNIT DESCRIPTION Above-ground, fixed roof naphthenic spent caustic tank with a capacity of 70,476 gallons.

DATE INSTALLED 1/79

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment		6.43		6.43
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR 60 Subpart Ka NESHAP? 40 CFR 63 Subpart CC PSD? OFFSET POLICY?

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

Enter Determination Use of submerged fill, compliance with 40 CFR 60 Subpart Ka, 40 CFR 63 Subpart CC

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No
OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ None

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? YES X NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 03-13434 Facility ID: 0302020012

FACILITY NAME The Premcor Refining Group, Inc.

FACILITY DESCRIPTION Petroleum oil refinerv CITY/TWP Lima

Emissions Unit ID: T219

SIC CODE 2911 SCC CODE 4-03-010-99 sulfidic spent caustic tank EMISSIONS UNIT ID T214

EMISSIONS UNIT DESCRIPTION Above-ground, fixed roof sulfidic spent caustic tank with a capacity of 70,476 gallons.

DATE INSTALLED 1/79

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment		6.43		6.43
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR 60 Subpart Ka NESHAP? 40 CFR 63 Subpart CC PSD? OFFSET POLICY?

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

Enter Determination Use of submerged fill, compliance with 40 CFR 60 Subpart Ka, 40 CFR 63 Subpart CC

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ None

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? YES X NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SC

PTI Num

FACILITY

Emissions Unit ID: **T219**

FACILITY DESCRIPTION Petroleum oil refinery CITY/TWP Lima

SIC CODE 2911 SCC CODE 4-03-010-99 wastewater tank EMISSIONS UNIT ID T217

EMISSIONS UNIT DESCRIPTION Above-ground, fixed-roof, closed vent wastewater equalization tank with a capacity of 4,000,000 gallons.

DATE INSTALLED 1/82

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment	0.11 lbs/hr	0.48	0.11 lbs/hr	0.48
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR 60 Subpart NESHAP? **40 CFR 63** PSD? OFFSET POLICY?
 Ka **Subpart CC, 40 CFR 61**
Subpart FF

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

Enter Determination Use of thermal oxidizer, compliance with 40 CFR 60 Subpart Ka, 40 CFR 63 Subpart CC, 40 CFR 61 Subpart FF

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? YES X NO

IDENTIFY THE AIR CONTAMINANTS:

4 NEW SOURCE REVIEW FORM B

PTI Number: 03-13434 Facility ID: 0302020012

FACILITY NAME The Premcor Refining Group, Inc.

FACILITY DESCRIPTION Petroleum oil refinerv CITY/TWP Lima

Emissions Unit ID: **T219**

SIC CODE 2911 SCC CODE 4-03-010-99 EMISSIONS UNIT ID T219
 monoethanolamine tank

EMISSIONS UNIT DESCRIPTION Above-ground, fixed roof monoethanolamine storage tank with a capacity of 22,000 gallons.

DATE INSTALLED 5/74

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment		0.47		0.47
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NPSPS? NESHAP? exempt from 40 PSD? OFFSET POLICY?
 CFR 63 Subpart CC

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

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ None

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? YES X NO

IDENTIFY THE AIR CONTAMINANTS: