CONSTRUCTION PERMIT
OFFICE OF AIR MANAGEMENT

TransMontaigne Terminaling, Inc.
3821 Indianapolis Boulevard
East Chicago, Indiana 46312

This permit is issued to the above mentioned company (herein known as the Permittee) under the provisions of 326 IAC 2-1 and 40 CFR 52.780, with conditions listed on the attached pages.

Construction Permit No.: CP-089-9508-00320	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) and presented in the permit application.

A.1 General Information

The Permittee owns and operates a stationary pipeline breakout tank farm.

Responsible Official:	Mr. Dudley Tarlton
Source Address:	3821 Indianapolis Boulevard, East Chicago, Indiana 46312
Mailing Address:	3821 Indianapolis Boulevard, East Chicago, Indiana 46312
SIC Code:	4613
County Location:	Lake
County Status:	Nonattainment for Ozone
Source Status:	Part 70 Permit Program Major Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary

This stationary source consists of the following emission units and pollution control devices:

(a) One (1) Internal floating roof above ground storage tank no. 134 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0F. The tank is equipped with a Mechanical Shoe Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

(b) One (1) Internal floating roof above ground storage tank no. 135 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0F. The tank is equipped with a Mechanical Shoe Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

(c) One (1) existing fixed roof tank modified into a new Internal floating roof above ground storage tank no. 151 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0F. The tank is equipped with a Mechanical Shoe Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

A.3 Part 70 Permit Applicability

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

SECTION B GENERAL CONDITIONS

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

Construction Conditions [326 IAC 2-1-3.2]

B.1 General Construction Conditions

(a) The data and information supplied with the application shall be considered part of this permit. Prior to any proposed change in construction which may affect allowable emissions, the change must be approved by the Office of Air Management (OAM).

(b) This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

B.3 Revocation of Permits [326 IAC 2-1-9(b)]

Pursuant to 326 IAC 2-1-9(b)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.4 Permit Review Rules [326 IAC 2]

Notwithstanding Construction Condition B.5, all requirements and conditions of this construction permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

B.5 First Time Operation Permit [326 IAC 2-1-4]

This document shall also become a first-time operation permit pursuant to 326 IAC 2-1-4 (Operating Permits) when, prior to start of operation, the following requirements are met:

(a) The attached affidavit of construction shall be submitted to the Office of Air Management (OAM), Permit Administration & Development Section, verifying that the facilities were constructed as proposed in the application. The facilities covered in the Construction Permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.

(b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.

(c) Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section and attach it to this document.

(d) The operation permit will be subject to annual operating permit fees pursuant to 326 IAC 2-7-19 (Fees).

(e) The Permittee has submitted their Part 70 application (T-089-9291-00320) on December 12, 1997. The equipment being reviewed under this permit shall be incorporated in the submitted Part 70 application.

Operation Conditions

B.6 General Operation Conditions

(a) The data and information supplied in the application shall be considered part of this permit. Prior to any change in the operation which may result in an increase in allowable emissions exceeding those specified in 326 IAC 2-1-1 (Construction and Operating Permit Requirements), the change must be approved by the Office of Air Management (OAM).

(b) The Permittee shall comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC13-17) and the rules promulgated thereunder.

B.7. Preventive Maintenance Plan [326 IAC 1-6-3]

Pursuant to 326 IAC 1-6-3 (Preventive Maintenance Plans), the Permittee shall prepare and maintain a preventive maintenance plan, including the following information:

(a) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices.

(b) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions.

(c) Identification of the replacement parts which will be maintained in inventory for quick replacement.

The preventive maintenance plan shall be submitted to IDEM, OAM upon request and shall be subject to review and approval.

B.8 Transfer of Permit [326 IAC 2-1-6]

Pursuant to 326 IAC 2-1-6 (Transfer of Permits):

(a) In the event that ownership of this motor home / recreational vehicles (RV) manufacturing operation is changed, the Permittee shall notify OAM, Permit Branch, within thirty (30) days of the change. Notification shall include the date or proposed date of said change.

(b) The written notification shall be sufficient to transfer the permit from the current owner to the new owner.

(c) The OAM shall reserve the right to issue a new permit.

B.9 Permit Revocation [326 IAC 2-1-9]

Pursuant to 326 IAC 2-1-9(a)(Revocation of Permits), this permit to construct and operate may be revoked for any of the following causes:

(a) Violation of any conditions of this permit.

(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.

(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.

(d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.

(e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of 326 IAC 2-1 (Permit Review Rules).

B.10 Availability of Permit [326 IAC 2-1-3(l)]

Pursuant to 326 IAC 2-1-3(l), the Permittee shall maintain the applicable permit on the premises of the source and shall make this permit available for inspection by the IDEM, or other public official having jurisdiction.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards

C.1 Major Source

Pursuant to 326 IAC 2-3 (Emission Offset), this source is a major source.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:

(a) Visible emissions shall not exceed an average of twenty percent (20%) opacity in twenty-four (24) consecutive readings, as determined in 326 IAC 5-1-4.

(b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.4 Incineration [326 IAC 4-2][326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

C.5 Fugitive Dust Emissions [326 IAC 6-1-11.1]

The Permittee shall be in violation of 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), if the opacity of fugitive particulate emissions exceeds ten percent (10%). Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.

C.6 Asbestos Abatement Projects - Accreditation [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

Prior to the commencement of any demolition or renovation activities, the Permittee shall use an Indiana accredited asbestos inspector to inspect thoroughly the affected facility or part of the facility where the demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II nonfriable asbestos containing material. The requirement that the inspector be accredited is federally enforceable.

C.7 Notice of Malfunctions[326 IAC 1-6-2]

(a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) or appointed representative upon request.

(b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAM, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.

(c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

Testing Requirements

C.8 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing methods approved by IDEM, OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days before the intended test date.

(b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the Commissioner, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Monitoring Requirements

C.9 Compliance Monitoring

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment, no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee shall notify:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

in writing, no more than ninety (90) days after receipt of this permit, with full justification of the reasons for the inability to meet this date and a schedule which it expects to meet. If a denial of the request is not received before the monitoring is fully implemented, the schedule shall be deemed approved.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.10 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the requirements of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.11 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(3) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are mandatory for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Corrective Actions and Response Steps

C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

(a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ninety (90) days after the date of issuance of this permit.

(c) If the ERP is disapproved by IDEM, OAM the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP. If after this time, the Permittee does not submit an approvable ERP, then IDEM, OAM shall supply such a plan.

(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

(f) Upon direct notification by IDEM, OAM, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.13 Compliance Monitoring Plan - Failure to Take Response Steps

(a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:

(1) This condition;

(2) The Compliance Determination Requirements in Section D of this permit;

(3) The Compliance Monitoring Requirements in Section D of this permit;

(4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and

(5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM upon request and shall be subject to review and approval by IDEM, OAM. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :

(A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and

(B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.

(b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.

(c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:

(1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;

(3) An automatic measurement was taken when the process was not operating; or

(4) The process has already returned to operating within “normal” parameters and no response steps are required.

(d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

Record Keeping and Reporting Requirements

C.15 Emission Statement [326 IAC 2-6]

(a) The Permittee shall submit a certified, annual emission statement that must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:

(1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);

(2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.

(b) The annual emission statement covers the twelve (12) consecutive month time period starting December 1 and ending November 30. The annual emission statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM on or before the date it is due.

C.16 Monitoring Data Availability

(a) With the exception of performance tests conducted in accordance with Section C-Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.

(b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.

(c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.

(d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.

(e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.

(f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.17 General Record Keeping Requirements

(a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location and available within one (1) hour upon verbal request of an IDEM, OAM representative, for a minimum of three (3) years. They may be stored elsewhere for the remaining two (2) years providing they are made available within thirty (30) days after written request.

(b) Records of required monitoring information shall include, where applicable:

(1) The date, place, and time of sampling or measurements;

(2) The dates analyses were performed;

(3) The company or entity performing the analyses;

(4) The analytic techniques or methods used;

(5) The results of such analyses; and

(6) The operating conditions existing at the time of sampling or measurement.

(c) Support information shall include, where applicable:

(1) Copies of all reports required by this permit;

(2) All original strip chart recordings for continuous monitoring instrumentation;

(3) All calibration and maintenance records;

(4) Records of preventive maintenance shall be sufficient to demonstrate that improper maintenance did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.

(d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.18 General Reporting Requirements

(a) To affirm that the source has met all the requirements stated in this permit the source shall submit a Quarterly Compliance Report. Any deviation from the requirements and the date(s) of each deviation must be reported.

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM on or before the date it is due.

(d) Unless otherwise specified in this permit, any quarterly report shall be submitted within thirty (30) days of the end of the reporting period.

(e) All instances of deviations must be clearly identified in such reports. A reportable deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:

(1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or

(2) An emergency as defined in 326 IAC 2-7-1(12); or

(3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.

(4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred or failure to monitor or record the required compliance monitoring is a deviation.

(f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.

(g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

Stratospheric Ozone Protection

C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

(a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

(b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

(a) One (1) Internal floating roof above ground storage tank no. 134 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0F. The tank is equipped with a Mechanical Shoe Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

(b) One (1) Internal floating roof above ground storage tank no. 135 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0F. The tank is equipped with a Mechanical Shoe Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

(c) One (1) existing fixed roof tank modified into a new Internal floating roof above ground storage tank no. 151 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0F. The tank is equipped with a Mechanical Shoe Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 12] [40 CFR 60.112b]

(a) the owner or operator of the tanks identified as 134 and 135 shall equip each tank with the following:

(1) A fixed roof in combination with an internal floating roof meeting the following specifications:

(i) 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.

(ii) 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:

(A) 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.

(B) 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.

(C) 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 (envelop) spans the annular space between the metal sheet and the floating roof.

(iii) 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.

(iv) 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.

(v) 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.

(vii) 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.

(viii) 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.

(ix) Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-9-4]

(a) The owner or operator of the tank identified as 151 shall do the following:

(1) On or before May 1, 1996, for each vessel having a permanently affixed roof, install one (1) of the following:

(A) An internal floating roof meeting the standards in subsection (b).

(2) For each vessel having an internal floating roof, install one (1) of the following:

(A) At the time of the next scheduled cleaning, but not later than ten (10) years after May 1,1996, an internal floating roof meeting the standards in subsection (b).

(3) For each vessel subject to this subsection, the owner or operator described in the report required in section 6(b) of this rule, install the following:

(A) Emission control equipment.

(b) Standards applicable to each internal floating roof are as follows:

(1) The internal floating roof shall float on the liquid surface, but not necessarily in complete contact with it, inside a vessel that has a permanently affixed roof.

(2) The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the vessel is completely emptied or subsequently emptied and refilled.

(3) 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.

(4) Each internal floating roof shall be equipped with one (1) of the following closure devices between the wall of the vessel and the edge of the internal floating roof:

(A) A foam or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal).

(B) Two (2) seals mounted one (1) above the other so that each forms a continuous closure that completely covers the space between the wall of the vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

(C) A mechanical shoe seal that consists of a metal sheet held vertically against the wall of the vessel by springs or weighted levers and that is connected by braces to the floating roof. A flexible coated fabric, or envelope, spans the annular space between the metal sheet and the floating roof.

(5) Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents shall provide a projection below the liquid surface.

(6) 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 that shall be maintained in a closed position at all times (with 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.

(7) Automatic bleeder vents shall be equipped with a gasket and shall 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) Rim space vents shall be equipped with a gasket and shall be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

(9) 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 ninety percent (90%) of the opening.

(10) Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

D.1.3 Emission Offset Minor Limit [326 IAC 2-3]

(a) The facilities identified as 134,135 and 151 shall use no more than 544,320,000 gallons of petroleum products per twelve (12) consecutive month period. This usage limit is required to limit the potential to emit of VOC to no greater than 20.20 tons per twelve (12) consecutive month period. Compliance with this limit makes 326 IAC 2-3 (Emission Offset) not applicable.

D.1.4 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the facilities identified as 134, 135 and 151.

Compliance Determination Requirements

D.1.5 Testing and Procedures [326 IAC 12] [40 CFR 60.113b]

(a) the owner or operator of the facilities identified as 134 and 135 shall do the following:

(1) 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 owner or operator shall repair the items before filling the storage vessel.

(2) 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 owner or operator 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 (IDEM) in the inspection report required in § 60.115b(a)(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.

(3) For vessels equipped with a double-seal system as specified in § 60.112b(a)(1)(ii)(B):

(i) Visually inspect the vessel as specified in paragraph (4) of this section at least every 5 years; or

(ii) Visually inspect the vessel as specified in paragraph (2) of this section.

(4) 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 owner or operator 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 this provision occur at intervals greater than 10 years in the case of vessels conducting the annual visual inspection as specified in paragraphs (2) and (3)(ii) of this section and at intervals no greater than 5 years in the case of vessels specified in paragraph (3)(i) of this section.

(5) Notify the Administrator (IDEM) in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by paragraphs (1) and (4) of this section to afford the Administrator (IDEM) the opportunity to have an observer present. If the inspection required by paragraph (4) of this section is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, the owner or operator shall notify the Administrator (IDEM) 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 (IDEM) at least 7 days prior to the refilling.

D.1.6 Testing and Procedures [326 IAC 8-9-5]

(a) The owner or operator of the tank identified as 151 equipped with an internal floating roof shall meet the following requirements:

(1) Visually inspect the internal floating roof, the primary seal, and the secondary seal, if one is in service, prior to filling the 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 owner or operator shall repair the items before filling the vessel.

(2) 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 twelve (12) months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the 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 owner or operator shall repair the items or empty and remove the vessel from service within forty-five (45) days. If a failure that is detected during inspections required in this section cannot be repaired in forty-five (45) days and if the vessel cannot be emptied within forty-five (45) days, a thirty (30) day extension may be requested from the department in the inspection report required in section 6(c)(3) of this rule. 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.

(3) For vessels equipped with both primary and secondary seals:

(A) visually inspect the vessel as specified in subdivision (4), at least every five (5) years; or

(B) visually inspect the vessel as specified in subdivision (2).

(4) Visually inspect the internal floating roof, the primary seal, the secondary seal, if one is in service, gaskets, slotted membranes, and sleeve seals each time the 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 ten percent (10%) open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this subdivision exist before refilling the vessel with VOL. In no event shall the inspections required by this subsection occur at intervals greater than ten (10) years in the case of vessels conducting the annual visual inspection as specified in subdivisions (2) and (3)(B) and at intervals no greater than five (5) years in the case of vessels specified in subdivision (3)(A).

(5) Notify the department in writing at least thirty (30) days prior to the filling or refilling of each vessel for which an inspection is required by subdivisions (1) and (4) to afford the department the opportunity to have an observer present. If the inspection required by subdivision (4) is not planned and the owner or operator could not have known about the inspection thirty (30) days in advance of refilling the vessel, the owner or operator shall notify the department at least seven (7) days prior to the refilling of the 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 department at least seven (7) days prior to the refilling.

Record Keeping and Reporting Requirements

D.1.7 Record Keeping Requirements [326 IAC 12] [40 CFR 60.115b] [326 IAC 8-4-3]

(a) Pursuant to 40 CFR 60.115b, the owner or operator of the tanks identified as 134 and 135 shall keep copies of all reports and records for at least 2 years. The owner or operator of the tanks identified as 134 and 135 shall meet the following requirements:

(1) Keep a record of each inspection performed as required by § 60.113b (a)(1), (a)(2), (a)(3), and (a)(4). 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).

(2) If any of the conditions described in § 60.113b(a)(2) are detected during the annual visual inspection required by § 60.113b(a)(2), 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.

(3) After each inspection required by § 60.113b(a)(3) 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 § 60.113b(a)(3)(ii), 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 § 61.112b(a)(1) or § 60.113b(a)(3) and list each repair made.

(b) Pursuant to 326 IAC 8-4-3(d) (Petroleum Sources: Petroleum Liquid Storage Facilities), the owner or operator of petroleum liquid storage vessels identified as 134,135 and 151 shall maintain records of the types of volatile petroleum liquid stored, the maximum true vapor pressure of the liquid as stored, and the results of the inspections performed on the storage vessels. Such records shall be maintained for a period of two (2) years ans shall be made available to the commissioner upon written request.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.8 Record Keeping and Reporting Requirements [326 IAC 8-9-6]

(a) The owner or operator of the tank 151 shall keep all records required by this section for three (3) years unless specified otherwise. Records required by subsection (b) shall be maintained for the life of the vessel.

(b) The owner or operator of the tank 151 shall maintain a record and submit to the department a report containing the following information for each vessel:

(1) The vessel identification number.

(2) The vessel dimensions.

(3) The vessel capacity.

(4) A description of the emission control equipment for each vessel described in section 4(a) and 4(b) of this rule, or a schedule for installation of emission control equipment on vessels described in section 4(a) or 4(b) of this rule with a certification that the emission control equipment meets the applicable standards.

(c) The owner or operator of the tank 151 shall comply with the following record keeping and reporting requirements:

(1) Keep a record of each inspection performed as required by section 5(b)(1) through 5(b)(4) of this rule. Each record shall identify the following:

(A) The vessel inspected by identification number.

(B) The date the vessel was inspected.
(C) The observed condition of each component of the control equipment, including the following:
(i) Seals.
(ii) Internal floating roof.
(iii) Fittings.

(2) If any of the conditions described in section 5(b)(2) of this rule are detected during the required annual visual inspection, a record shall be maintained and a report shall be furnished to the department within thirty (30) days of the inspection. Each report shall identify the following:
(A) The vessel by identification number.
(B) The nature of the defects.
(C) The date the vessel was emptied or the nature of and date the repair was made.

(3) After each inspection required by section 5(b)(3) of this rule 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 section 5(b)(3)(B) of this rule, a record shall be maintained and a report shall be furnished to the department within thirty (30) days of the inspection. The report shall identify the following:
(A) The vessel by identification number.
(B) The reason the vessel did not meet the specifications of section 4(a)(1)(A), 4(a)(2)(A), or 5(b) of this rule and list each repair made.

(d) Available data on the storage temperature may be used to determine the maximum true vapor pressure at the tank 151 as follows:

(1) The maximum true vapor pressure for VOLs stored at temperatures above or below the ambient temperature shall correspond to the highest calendar-month average storage temperature. The maximum true vapor pressure for VOLs stored at the ambient temperature shall correspond to the local maximum monthly average temperature, as reported by the National Weather Service.

(2) For local crude oil or refined petroleum products, the maximum vapor pressure may be determined as follows:
(A) 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* unless the department specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the samples.
(B) The maximum true vapor pressure of each type of crude oil with a Reid vapor pressure less than two (2) pounds per square inch or with physical properties that preclude determination by the recommended method shall be determined from available data and recorded if the estimated maximum true vapor pressure is greater than five-tenths (0.5) psia.

(3) For other liquids, the maximum true vapor pressure may be determined by any of the following methods:
(A) Standard reference texts.
(B) ASTM Method D2879-92*.
(C) Calculated or measured by a method approved by the department.

D.1.9 Reporting Requirements [326 IAC 12] [40 CFR 60.115b]

(a) Pursuant to 40 CFR 60.115b, the owner or operator of the tanks identified as 134 and 135 shall meet the following requirements:

(1) Furnish the Administrator with a report that describes the control equipment and certifies that the control equipment meets the specifications of § 60.112b(a)(1) and § 60.113b(a)(1). This report shall be an attachment to the notification required by § 60.7(a)(3).

(b) A quarterly summary of the information to document compliance with Condition D.1.3, the owner or operator of the tanks identified as 134, 135 and 151 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
FAX NUMBER - 317 233-5967

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE: IT HAS POTENTIAL TO EMIT 25 LBS/HR PARTICULATES ?_____, 100 LBS/HR VOC ?_____, 100 LBS/HR SULFUR DIOXIDE ?_____ OR 2000 LBS/HR OF ANY OTHER POLLUTANT ?_____ EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF 'MALFUNCTION' AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: TransMontaigne Terminaling, Inc. PHONE NO. (501) 444 - 9603 , ext. 223
LOCATION: (CITY AND COUNTY)East Chicago, Lake
PERMIT NO. 089-9508 AFS PLANT ID: 089-00320 AFS POINT ID: _____ INSP: Bob Simmons
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____
_____

DATE/TIME MALFUNCTION STARTED: _____/_____/ 19____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE_____/_____/ 19____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

_____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS:_____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT:_____
INTERIM CONTROL MEASURES: (IF APPLICABLE) _____
_____
_____

MALFUNCTION REPORTED BY_____TITLE:_____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____DATE:_____TIME:_____

REV 3/96 FAX NUMBER - 317 233-5967 *SEE REVERSE

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. The requirements of this rule (326 IAC 1-6) shall apply to the owner or operator of any facility which has the potential to emit twenty-five (25) pounds per hour of particulates, one hundred (100) pounds per hour of volatile organic compounds or SO2, or two thousand (2,000) pounds per hour of any other pollutant; or to the owner or operator of any facility with emission control equipment which suffers a malfunction that causes emissions in excess of the applicable limitation.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. (Air Pollution Control Board; 326 IAC 1-2-39; filed Mar 10, 1988, 1:20 p.m. : 11 IR 2373)

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

_____

_____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION

Quarterly Report

Source Name:	TransMontaigne Terminaling, Inc.
Source Address:	3821 Indianapolis Boulevard, East Chicago, IN 46312
Mailing Address:	280 North College Avenue, Suite # 500, Fayetteville, AR 72701
Construction Permit No.:	CP # 089-9508-00320
Facilities:	Tanks - 134, 135 and 151
Parameter:	VOC
Limit:	544,320,000 gallons petroleum products per 12 months period,
First Year Limit:	45, 360,000 gallons petroleum products per month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Indiana Department of Environmental Management
Office of Air Management

Technical Support Document (TSD) for New Construction and Operation

Source Background and Description

Source Name:	TransMontaigne Terminaling, Inc.
Source Location:	3821 Indianapolis Boulevard, East Chicago, Indiana 46312
County:	Lake
Construction Permit No.:	CP-089-9508-00320
SIC Code:	4613
Permit Reviewer:	Manoj P. Patel

The Office of Air Management (OAM) has reviewed an application from TransMontaigne Terminaling, Inc. relating to the construction and operation of a pipeline breakout tank farm, consisting of the following equipment:

(a) One (1) Internal floating roof above ground storage tank no. 134 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0F. The tank is equipped with a Liquid Mounted Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

(b) One (1) Internal floating roof above ground storage tank no. 135 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0F. The tank is equipped with a Liquid Mounted Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

(c) One (1) existing fixed roof tank modified into a new Internal floating roof above ground storage tank no. 151 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0F. The tank is equipped with a Liquid Mounted Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

Stack Summary

Stack ID	Operation	Stack Type	Height (feet)	Diameter (feet)	Temperature (^{0}F)
134	IFR Tanks	8 Vents	48	1.5' x 2.5'	Ambient
135		8 Vents	48	1.5' x 2.5'	
151		8 Vents	48	1.5' x 2.5'	

IFR = Internal Floating Roof

Recommendation

The staff recommends to the Commissioner that the construction and operation be approved. This recommendation is based on the following facts and conditions:

Information, unless otherwise stated, used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on February 25, 1998, with additional information received on March 31, April 17, and May 13, 1998.

Emissions Calculations

(a) Tank Emissions (ID#.# 134, 135 and 151) Calculation:

(1) See Appendix A, B, C: Emissions Calculation Table for detailed volatile organic compounds (VOC) emissions at tank 134, 135 and 151.

(2) See Appendix D: Emissions Calculation Table for detailed HAPs emissions at tank 134, 135 and 151.

Total Potential and Allowable Emissions

Indiana Permit Allowable Emissions Definition (after compliance with applicable rules, based on maximum of 36 turnovers per year at maximum storage capacity):

Pollutant	Allowable Emissions (tons/year)	Potential Emissions (tons/year)
Particulate Matter (PM)	0.0	0.0
Particulate Matter (PM10)	0.0	0.0
Sulfur Dioxide (SO_2)	0.0	0.0
Volatile Organic Compounds (VOC)	24.50	24.50
Carbon Monoxide (CO)	0.0	0.0
Nitrogen Oxides (NO_x)	0.0	0.0
Single Hazardous Air Pollutant (HAP)	0.40	0.40
Combination of HAPs	1.27	1.27

(a) Allowable emissions (as defined in the Indiana Rule) of volatile organic compounds (VOC) are limited to 25 tons per year. Therefore, pursuant to 326 IAC 2-1, Sections 1 and 3, a construction permit is required.

County Attainment Status

(a) Volatile organic compounds (VOC) and oxides of nitrogen (NO_X) are precursors for the formation of ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. Lake County has been designated as severe nonattainment for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

Source Status

Existing Source PSD (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/yr)
PM	0.0015
PM10	0.0015
SO_2	0.003
VOC	257.25
CO	0.10
NO_x	0.043

(a) This existing source is a major stationary source because volatile organic compounds (VOC) are emitted at a rate of 100 tons per year or greater.

(b) These emissions were based on Facility Quick Look Report, dated March 18, 1998.

Proposed Modification

PTE from the proposed modification (based on 8,760 hours of operation per year at rated capacity and 36 turnovers per year):

Pollutant	PM (ton/yr)	PM10 (ton/yr)	SO_2 (ton/yr)	VOC (ton/yr)	CO (ton/yr)	NO_x (ton/yr)
Proposed Modification				24.50		0.0
de minimis Level	100	100	100	25	100	25

(a) This modification to an existing major stationary source is not major because the emissions increase is less than the Emission Offset significant levels. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source has submitted their Part 70 (T-089-9291-00320) application on December 12, 1997. The equipment being reviewed under this permit shall be incorporated in the submitted Part 70 application.

Federal Rule Applicability

(a) The tanks identified as 134 and 135 are subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.112b, Subpart Kb). Pursuant to 40 CFR 60.112b,

(a) the owner or operator of the tanks identified as 134 and 135 shall equip each tank with the following:

(1) A fixed roof in combination with an internal floating roof meeting the following specifications:

(i) 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.

(ii) 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:

(A) 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.

(iii) 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.

(iv) 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.

(v) 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.

(vii) 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.

(viii) 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.

(ix) Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

The testing procedures are required under 40 CFR 60.113b, record keeping and reporting required under 40 CFR 60.115b.

(b) The National Emissions Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) 40 CFR 63.420 (Subpart R) does not apply to this source, because the source has documented and recorded that emissions screening factor (E_P) is less than 1 with the equation as follows:

$$E_P = CF\ [\ 6.7\ (T_F)\ (1- CE) + 0.21\ (T_E) + 0.093\ (T_{ES}) + 0.10\ (T_I) + 5.31 \times 10^{-6}\ (C)]$$

E_P	=	emission screening factor for pipeline breakout stations;
CF	=	0.161 for bulk gasoline terminals that do not handle any reformulated or oxygenated gasoline;
T_F	=	total numbers of fixed-roof gasoline storage vessels without an internal floating roof;
CE	=	federally enforceable control efficiency of the vapor processing system used to control emissions from the fixed roof gasoline storage vessels;
T_E	=	total numbers of external floating roof gasoline storage vessels with only primary seals;
T_{ES}	=	total numbers of external floating roof gasoline storage vessels with primary and secondary seals;
T_I	=	total numbers of fixed-roof gasoline storage vessels with an internal floating roof;
C	=	numbers of valves, pumps, connectors, loading arms valves, and open ending lines in gasoline service,
E_P	=	$0.161[6.7*0+ 0.21*0 + 0.093*(13) + 0.10\ (3) + 5.31 \times 10^{-6} * (178)]$
	=	0.161[1.209 + 0.30+ 0.000945]
	=	0.161[1.51]
	=	0.243
	=	< 1

State Rule Applicability

326 IAC 2-6 (Emission Reporting)

This facility is subject to 326 IAC 2-6 (Emission Reporting), because the source emits more than 10 tons/yr of VOC. Pursuant to this rule, the owner/operator of this facility must annually submit an emission statement of the facility. The annual statement must be received by April 15 of each year and must contain the minimum requirements as specified in 326 IAC 2-6-4.

326 IAC 2-3 (Emission Offset)

The proposed modification is not subject to 326 IAC 2-3 (Emission Offset), because the net emissions increases of volatile organic compounds (VOC) from the proposed source modification project with other net emissions increases from the source over a five (5) consecutive calendar year in a severe ozone nonattainment does not exceed twenty-five (25) tons per year. The VOC emissions from the facilities identified as 134, 135 and 151 are 24.50 tons per year, based on the 36 turnovers per year.

326 IAC 8-4-3 (Petroleum Sources: Petroleum Liquid Storage Facilities)

The internal floating roof above ground vertical storage tanks identified as 134, 135 and 151 are subject to 326 IAC 8-4-3 (Petroleum Sources: Petroleum Liquid Storage Facilities), because the tanks have storage capacity of greater than one hundred fifty-thousand (150, 000) liters (thirty-nine thousand (39,000) gallons) containing volatile organic compounds whose true vapor pressure is greater than 10.5 kPa (1.52 psi).

326 IAC 8-6 (Organic Solvent Emission Limitations)

This rule (326 IAC 8-6(Organic Solvent Emission Limitations)) does not apply to the tanks because the tanks are subject to 326 IAC 8-4-3 (Petroleum Sources: Petroleum Liquid Storage Facilities) requirements. This rule apply to existing source (as of January 1, 1980), located in Lake and Marion Counties, with potential emissions of 90.7 megagrams (100 tons) or greater per year of VOC, not limited by other rules in the article (326 IAC 8).

326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties)

This rule does not apply to the new proposed construction (tanks- 134,135 and 151) even though the stationary source located in Lake County and emits volatile organic compounds (VOC) at levels equal to or greater than 25 tons per year, because the actual emissions are higher than the applicability level of 326 IAC 8-4-3.

326 IAC 8-9 (Volatile Organic Liquid Vessels)

This rule applies to the tank 151 because the tank is located in the Lake County and has a capacity of greater than 39,000 gallons that stores a volatile organic liquid (VOL).

326 IAC 2-1-3.4 (New Source Toxic Control Rule)

This rule does not apply to the tanks because the tanks do not have a potential to emit more than ten (10) tons per year of any hazardous air pollutant or twenty-five (25) tons of any combination of hazardous air pollutants which are listed in Section 112(b) of the Clean Air Act.

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 187 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Construction Permit Application Form Y.

(a) These new tanks will emit levels of air toxics less than those which constitute a major source according to Section 112 of the 1990 Amendments to Clean Air Act.

(b) See Appendix D: HAP emissions Calculations for detailed air toxic calculations.

Conclusion

The construction of the tanks identified as 134, 135 and 151 at pipeline breakout station will be subject to the conditions of the attached proposed **Construction Permit No. CP-089-9508-00320.**

Indiana Department of Environmental Management
Office of Air Management

Addendum to the
Technical Support Document for New Construction and Operation

Source Name:	TransMontaigne Terminaling, Inc.
Source Location:	3821 Indianapolis Boulevard, East Chicago, Indiana 46312
County:	Lake
Construction Permit No.:	CP-089-9508-00320
SIC Code:	4613
Permit Reviewer:	Manoj P. Patel

On June 16, 1998, the Office of Air Management (OAM) had a notice published in the Hammond Times & Gary Post Tribune, Munster & Gary, Indiana, stating that TransMontaigne Terminaling, Inc. had applied for a construction permit to construct and operate a stationary pipeline breakout tank farm. The notice also stated that OAM proposed to issue a permit for this installation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On July 13, 1998, TransMontaigne Terminaling, Inc. submitted comments on the proposed construction permit. The summary of the comments and corresponding responses is as follows (changes are bolded for emphasis):

Comment 1:

TransMontaigne Terminaling, Inc. proposes to use a mechanical shoe as a primary rim seal instead of a liquid mounted seal.

Response 1:

Subsection (a), (b) and (c) of Section A.2 and D.1, on page 4 and 17 of the proposed construction permit have been changed from:

(a) One (1) Internal floating roof above ground storage tank no. 134 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0F. The tank is equipped with a Liquid Mounted Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

(b) One (1) Internal floating roof above ground storage tank no. 135 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0F. The tank is equipped with a Liquid Mounted Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

(c) One (1) existing fixed roof tank modified into a new Internal floating roof above ground storage tank no. 151 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0F. The tank is equipped with a Liquid Mounted Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

to be as follows, on page 4 and 17 of 27 of the final construction permit:

(a) One (1) Internal floating roof above ground storage tank no. 134 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0 F. The tank is equipped with a ~~Liquid-Mounted~~ **Mechanical Shoe** Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

(b) One (1) Internal floating roof above ground storage tank no. 135 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0 F. The tank is equipped with a ~~Liquid-Mounted~~ **Mechanical Shoe** Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

(c) One (1) existing fixed roof tank modified into a new Internal floating roof above ground storage tank no. 151 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0 F. The tank is equipped with a ~~Liquid-Mounted~~ **Mechanical Shoe** Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

Because of the different primary seal selection by the source, condition D.1.1 (Volatile Organic Compounds) on page 17 of 27 of the proposed permit has been changed from:

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 12] [40 CFR 60.112b]

(a) the owner or operator of the tanks identified as 134 and 135 shall equip each tank with the following:

(1) A fixed roof in combination with an internal floating roof meeting the following specifications:

(i) 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.

(ii) 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:

(A) 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.

to be follows, on page 17 of 27 of the final permit:

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 12] [40 CFR 60.112b]

(a) the owner or operator of the tanks identified as 134 and 135 shall equip each tank with the following:

(1) A fixed roof in combination with an internal floating roof meeting the following specifications:

(i) 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.

(ii) 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:

(A) 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.

(B) 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.

(C) 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 (envelop) spans the annular space between the metal sheet and the floating roof.

Comment 2:

TransMontaigne Terminals has changed the deck details for all three (3) tanks as follows:

Deck Fitting / Status	Quantity
Access Hatch (24-in Diam) / Bolted Cover, Gasketed	3
Automatic Gauge Float Well / Bolted Cover, Gasketed	1
Column Well (24-inch Diam) / Pipe Col.- Sliding Cover, Gasketed	8
Ladder Well (36-inch Diam.) / Sliding Cover, Gasketed	1
Vacuum Breaker (10-inch Diam.)/ Weighted Mechanical Actuation, Gasketed	2
Stub Drain (1-inch Diameter)/	28
Sample Pipe or Well (24-inch Diam.)/ Slit Fabric Seal 10% Open	1
Roof Leg or Hanger Well / Adjustable	60

Using the US EPA Tanks 3.1 Emissions calculation shows VOC emissions of 6.73 tons per year. The VOC emissions from the three tanks would be 20.20 tons per year instead of 24.50 tons per year.

Response 3:

OAM has performed VOC emissions using the deck fitting proposed by the source. The VOC emissions from the each tank would be 6.73 tons per year, based on the 37 turnovers per year. The OAM attached a revised appendixes A, B and C with this TSD addendum. Condition D.1.3 (Emission Offset Minor Limit), on page 19 of 27 of the proposed permit has been changed from:

D.1.3 Emission Offset Minor Limit [326 IAC 2-3]

(a) The facilities identified as 134,135 and 151 shall use no more than 544,320,000 gallons of petroleum products per twelve (12) consecutive month period. This usage limit is required to limit the potential to emit of VOC to no greater than 24.50 tons per twelve (12) consecutive month period. Compliance with this limit makes 326 IAC 2-3 (Emission Offset) not applicable.

to be follows, on page 19 of 27 of the final permit:

D.1.3 Emission Offset Minor Limit [326 IAC 2-3]

(a) The facilities identified as 134,135 and 151 shall use no more than 544,320,000 gallons of petroleum products per twelve (12) consecutive month period. This usage limit is required to limit the potential to emit of VOC to no greater than ~~24.50~~ **20.20** tons per twelve (12) consecutive month period. Compliance with this limit makes 326 IAC 2-3 (Emission Offset) not applicable.

Proposed modification section, on page 3 of 6 of the original TSD will be amended from:

Pollutant	PM (ton/yr)	PM10 (ton/yr)	SO_2 (ton/yr)	VOC (ton/yr)	CO (ton/yr)	NO_x (ton/yr)
Proposed Modification				24.50		0.0
de minimis Level	100	100	100	25	100	25

to be as follows:

Pollutant	PM (ton/yr)	PM10 (ton/yr)	SO_2 (ton/yr)	VOC (ton/yr)	CO (ton/yr)	NO_x (ton/yr)
Proposed Modification				~~24.50~~ **20.20**		0.0
de minimis Level	100	100	100	25	100	25

Upon further review, OAM has made the following changes to the final construction permit (Changes are bolded for emphasis):

1. Condition B.5 (First Time Operation Permit), on page 5 of 27 of the proposed permit has been changed from:

   (e) The Permittee has submitted their Part 70 application (T-039-7571-00157) on December 13, 1996. The equipment being reviewed under this permit shall be incorporated in the submitted Part 70 application.

to be follows, on page 5 of 27 of the final permit:

(e) The Permittee has submitted their Part 70 application (~~T-039-7571-00157~~ **089-9291-00320**) on December 1~~3~~ **2**, 199~~6~~ **7**. The equipment being reviewed under this permit shall be incorporated in the submitted Part 70 application.

Mail to: Permit Administration & Development Section
Office Of Air Management
100 North Senate Avenue
P. O. Box 6015
Indianapolis, Indiana 46206-6015

TransMontaigne Terminaling, Inc.
3821 Indianapolis Boulevard
East Chicago, Indiana 46312

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.

2. I hold the position of _____ for _____.
(Title) (Company Name)

3. By virtue of my position with _____,I have personal
(Company Name)

knowledge of the representations contained in this affidavit and am authorized to make

these representations on behalf of _____ .
(Company Name)

4. I hereby certify that TransMontaigne Terminaling, Inc., 3821 Indianapolis Boulevard, East Chicago, Indiana, 46312, has constructed the following:

(a) One (1) Internal floating roof above ground storage tank no. 134 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0 F. The tank is equipped with a Mechanical Shoe Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

(b) One (1) Internal floating roof above ground storage tank no. 135 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0 F. The tank is equipped with a Mechanical Shoe Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

(c) One (1) existing fixed roof tank modified into the new Internal floating roof above ground storage tank no. 151 used to store petroleum products with a maximum true vapor pressure of 9.15 psia at 68^0 F. The tank is equipped with a Mechanical Shoe Primary and Rim Mounted Secondary seal, maximum design capacity of 5,040,000 gallons.

in conformity with the requirements and intent of the construction permit application received by the Office of Air Management on February 25, 1998 and as permitted pursuant to **Construction Permit No. CP-089-9508, Plant ID No. 089-00320** issued on _____

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

_____
Signature

_____
Date

STATE OF INDIANA)
)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of

Indiana on this _____ day of _____, 19 _____ .

My Commission expires: _____

_____

Signature

_____

Name (typed or printed)

Revised Appendix A: VOC Emissions Calculation

Company Name:	TransMontaigne Terminaling, Inc.
Plant Location:	3821 Indianapolis Boulevard, East Chicago, Indiana 46312
County:	Lake
Permit:	CP # 089-9508-00320
Permit Reviewer:	Manoj P. Patel
Date:	May 13, 1998

Identification

Identification No.:	134
City:	East Chicago
State:	IN
Company:	TransMontaigne Terminaling,Inc
Type of Tank:	Internal Floating Roof
Description:	IFR Tank 134

Tank Dimensions

Diameter (ft):	137.0
Volume(gallons):	5040000
Turnovers:	36.0

Paint Characteristics

Shell Condition:	Light Rust
Shell Color/Shade:	White/White
Shell Paint Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

Rim-Seal System

Primary Seal:	Mechanical Shoe
Secondary Seal:	Rim-mounted
Deck Type:	Bolted

Deck Characteristics

Deck Fitting Category:	Detail
Construction:	Cont. Sheet: 5 Ft Wide
Deck Seam Len. (ft):	2948

Deck Fitting/Status	Quantity
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	2
Column Well (24-in. Diam.)/Pipe Col.-Sliding Cover, Gask.	8
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed	3
Automatic Gauge Float Well/Bolted Cover, Gasketed	1
Ladder Well (36-in Diam.)/Sliding Cover, Gasketed	1
Stub Drain (1-in. Diameter)/	28
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	1
Roof Leg or Hanger Well/Adjustable	60

Meteorological Data Used in Emission Calculations: Chicago, Illinois (Avg Atmospheric Pressure = 14.7 psia)

Mixture/Component	Month	Daily Liquid Surf. Temperatures (deg F) Avg.	Min.	Max.	Liquid Bulk Temp. (deg F)	Vapor Pressures (psia) Avg.	Min.	Max.	Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
RVP 15 Slope=3.0 (worst case)	All	50.84	45.97	55.71	49.22	6.8712	N/A	N/A	60.150		96.00		Option 4: RVP=15.00, ASTM

Annual Emission Calculations

Rim Seal Losses (lb):	772.3968
Seal Factor A (lb-mole/ft-yr):	0.60
Seal Factor B (lb-mole/ft yr (mph)^n):	0.40
Value of Vapor Pressure Function:	0.1562
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	6.871165
Tank Diameter (ft):	137.0
Vapor Molecular Weight (lb/lb-mole):	60.150
Product Factor:	1.0

Withdrawal Losses (lb):	265.8219
Number of Columns:	8.0
Effective Column Diameter (ft):	1.10
Annual Net Throughput (gal/yr):	181440000
Shell Clingage Factor:	0.0015
Average Organic Liquid Density (lb/gal):	5.6000
Tank Diameter (ft):	137.0

Deck Fitting Losses (lb):	7475.8986
Value of Vapor Pressure Function:	0.1562
Vapor Molecular Weight (lb/lb-mole):	60.15
Product Factor:	1.0
Tot. Deck Fitting Loss Fact. (lb-mole/yr):	795.60

Deck Seam Losses (lb):	4937.8087
Deck Seam Length (ft):	2948
Deck Seam Loss per Unit Length Factor (lb-mole/ft-yr):	0.1400
Deck Seam Length Factor (ft/sqft):	0.2000
Tank Diameter (ft):	137.0
Vapor Molecular Weight (lb/lb-mole):	60.150
Product Factor:	1.0

Deck Fitting/Status	Deck Fitting Loss Factors Quantity	KFa (lb-mole/yr)	KFb (lb-mole/(yr mph^n))	m	Losses (lb.)
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	2	6.20	1.20	0.94	116.5173
Column Well (24-in. Diam.)/Pipe Col.-Sliding Cover, Gask.	8	25.00	0.00	0.00	1879.3109
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed	3	1.60	0.00	0.00	45.1035
Automatic Gauge Float Well/Bolted Cover, Gasketed	1	2.80	0.00	0.00	26.3104
Ladder Well (36-in Diam.)/Sliding Cover, Gasketed	1	56.00	0.00	0.00	526.2070
Stub Drain (1-in. Diameter)/	28	1.20	0.00	0.00	315.7242
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	1	12.00	0.00	0.00	112.7587
Roof Leg or Hanger Well/Adjustable	60	7.90	0.00	0.00	4453.9667

Total Losses (lb): 13451.93

Annual Emissions Report

Liquid Contents	Losses (lbs.): Total Withdrawal	Total Rim-Seal	Deck-Fitting	Deck Seam	Standing	Total
RVP 15	265.82	772.40	7475.90	4937.81	13186.10	13451.93
Total:	265.82	772.40	7475.90	4937.81	13186.10	13451.93

Appendix B: VOC Emissions Calculation

Company Name:	TransMontaigne Terminaling, Inc.
Plant Location:	3821 Indianapolis Boulevard, East Chicago, Indiana 46312
County:	Lake
Permit:	CP # 089-9508-00320
Permit Reviewer:	Manoj P. Patel
Date:	May 13, 1998

Identification

Identification No.:	Tank 135
City:	East Chicago
State:	IN
Company:	TransMontaigne Terminaling Inc
Type of Tank:	Internal Floating Roof
Description:	IFR Tank

Tank Dimensions

Diameter (ft):	137.0
Volume(gallons):	5040000
Turnovers:	36.0

Paint Characteristics

Shell Condition:	Light Rust
Shell Color/Shade:	White/White
Shell Paint Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

Rim-Seal System

Primary Seal:	Liquid-mounted
Secondary Seal:	Rim-mounted
Deck Type:	Bolted

Deck Characteristics

Deck Fitting Category:	Detail
Construction:	Cont. Sheet: 5 Ft Wide
Deck Seam Len. (ft):	2948

Deck Fitting/Status	Quantity
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Ungask.	1
Stub Drain (1-in. Diameter)/	151
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	1
Roof Leg or Hanger Well/Adjustable	50
Ladder Well (36-in Diam.)/Sliding Cover, Ungasketed	1
Column Well (24-in. Diam.)/Built-Up Col.-Sliding Cover, Ungask.	9
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1
Access Hatch (24-in. Diam.)/Unbolted Cover, Ungasketed	1

Meteorological Data Used in Emission Calculations: Chicago, Illinois (Avg Atmospheric Pressure = 14.7 psia)

Mixture/Component	Month	Daily Liquid Surf. Temperatures (deg F) Avg.	Min.	Max.	Liquid Bulk Temp. (deg F)	Vapor Pressures (psia) Avg.	Min.	Max.	Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
RVP 15 Slope=3.0 (worst case)	All	50.84	45.97	55.71	49.22	6.8712	N/A	N/A	60.150		96.00		Option 4: RVP=15.00, ASTM

Annual Emission Calculations

Rim Seal Losses (lb):	386.1984
Seal Factor A (lb-mole/ft-yr):	0.3000
Seal Factor B (lb-mole/ft yr (mph)^n):	0.6000
Value of Vapor Pressure Function:	0.1562
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	6.871165

Tank Diameter (ft):	137.0
Vapor Molecular Weight (lb/lb-mole):	60.150000
Product Factor:	1.0000
Withdrawal Losses (lb):	267.8274
Number of Columns:	9.0000
Effective Column Diameter (ft):	1.1000
Annual Net Throughput (gal/yr):	181440000
Shell Clingage Factor:	0.0015
Average Organic Liquid Density (lb/gal):	5.6000
Tank Diameter (ft):	137.0
Deck Fitting Losses (lb):	10759.0546
Value of Vapor Pressure Function:	0.1562
Vapor Molecular Weight (lb/lb-mole):	60.15
Product Factor:	1.0
Tot. Deck Fitting Loss Fact. (lb-mole/yr):	1145.0
Deck Seam Losses (lb):	4937.8087
Deck Seam Length (ft):	2948
Deck Seam Loss per Unit Length Factor (lb-mole/ft-yr):	0.1400
Deck Seam Length Factor (ft/sqft):	0.2000
Tank Diameter (ft):	137.0
Vapor Molecular Weight (lb/lb-mole):	60.15
Product Factor:	1.0

	Deck Fitting Loss Factors				
Deck Fitting/Status	Quantity	KFa (lb-mole/yr)	KFb (lb-mole/(yr mph^n))	m	Losses (lb.)
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Ungask.	1	7.80	0.01	4.00	73.2931
Stub Drain (1-in. Diameter)/	151	1.20	0.00	0.00	1702.6556
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	1	12.0	0.00	0.00	112.7587
Roof Leg or Hanger Well/Adjustable	50	7.90	0.0	0.00	3711.6389
Ladder Well (36-in Diam.)/Sliding Cover, Ungasketed	1	76.0	0.0	0.0	714.1381
Column Well (24-in. Diam.)/Built-Up Col.-Sliding Cover, Ungask.	9	47.00	0.00	0.00	3974.7424
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1	14.00	5.40	1.10	131.5518
Access Hatch (24-in. Diam.)/Unbolted Cover, Ungasketed	1	36.00	5.90	1.20	338.2760

Total Losses (lb): 16350.89

Annual Emissions Report

	Losses (lbs.):					
Liquid Contents	Total Withdrawal	Rim-Seal	Total Deck-Fitting	Deck Seam	Standing	Total
RVP 15	267.83	386.20	10759.05	4937.81	16083.06	16350.89
Total:	267.83	386.20	10759.05	4937.81	16083.06	16350.89

Appendix C: VOC Emissions Calculation

Company Name:	TransMontaigne Terminaling, Inc.
Plant Location:	3821 Indianapolis Boulevard, East Chicago, Indiana 46312
County:	Lake
Permit:	CP # 089-9508-00320
Permit Reviewer:	Manoj P. Patel
Date:	May 13, 1998

Identification

Identification No.:	Tank 151
City:	East Chicago
State:	IN
Company:	TransMontaigne Terminaling Inc
Type of Tank:	Internal Floating Roof
Description:	IFR Tank

Tank Dimensions

Diameter (ft):	137.0
Volume(gallons):	5040000
Turnovers:	36.0

Paint Characteristics

Shell Condition:	Light Rust
Shell Color/Shade:	White/White
Shell Paint Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

Rim-Seal System

Primary Seal:	Liquid-mounted
Secondary Seal:	Rim-mounted
Deck Type:	Bolted

Deck Characteristics

Deck Fitting Category:	Detail
Construction:	Cont. Sheet: 5 Ft Wide
Deck Seam Len. (ft):	2948

Deck Fitting/Status	Quantity
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Ungask.	1
Stub Drain (1-in. Diameter)/	151
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	1
Roof Leg or Hanger Well/Adjustable	50
Ladder Well (36-in Diam.)/Sliding Cover, Ungasketed	1
Column Well (24-in. Diam.)/Built-Up Col.-Sliding Cover, Ungask.	9
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1
Access Hatch (24-in. Diam.)/Unbolted Cover, Ungasketed	1

Meteorological Data Used in Emission Calculations: Chicago, Illinois (Avg Atmospheric Pressure = 14.7 psia)

Mixture/Component	Month	Daily Liquid Surf. Temperatures (deg F) Avg.	Min.	Max.	Liquid Bulk Temp. (deg F)	Vapor Pressures (psia) Avg.	Min.	Max.	Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
RVP 15 Slope=3.0 (worst case)	All	50.84	45.97	55.71	49.22	6.8712	N/A	N/A	60.150		96.00		Option 4: RVP=15.00, ASTM

Annual Emission Calculations

Rim Seal Losses (lb):	386.1984
Seal Factor A (lb-mole/ft-yr):	0.3000
Seal Factor B (lb-mole/ft yr (mph)^n):	0.6000
Value of Vapor Pressure Function:	0.1562
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	6.871165

Tank Diameter (ft):	137.0
Vapor Molecular Weight (lb/lb-mole):	60.150000
Product Factor:	1.0000
Withdrawal Losses (lb):	267.8274
Number of Columns:	9.0000
Effective Column Diameter (ft):	1.1000
Annual Net Throughput (gal/yr):	181440000
Shell Clingage Factor:	0.0015
Average Organic Liquid Density (lb/gal):	5.6000
Tank Diameter (ft):	137.0
Deck Fitting Losses (lb):	10759.0546
Value of Vapor Pressure Function:	0.1562
Vapor Molecular Weight (lb/lb-mole):	60.15
Product Factor:	1.0
Tot. Deck Fitting Loss Fact. (lb-mole/yr):	1145.0
Deck Seam Losses (lb):	4937.8087
Deck Seam Length (ft):	2948
Deck Seam Loss per Unit Length Factor (lb-mole/ft-yr):	0.1400
Deck Seam Length Factor (ft/sqft):	0.2000
Tank Diameter (ft):	137.0
Vapor Molecular Weight (lb/lb-mole):	60.15
Product Factor:	1.0

	Deck Fitting Loss Factors				
Deck Fitting/Status	Quantity	KFa (lb-mole/yr)	KFb (lb-mole/(yr mph^n))	m	Losses (lb.)
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Ungask.	1	7.80	0.01	4.00	73.2931
Stub Drain (1-in. Diameter)/	151	1.20	0.00	0.00	1702.6556
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	1	12.0	0.00	0.00	112.7587
Roof Leg or Hanger Well/Adjustable	50	7.90	0.0	0.00	3711.6389
Ladder Well (36-in Diam.)/Sliding Cover, Ungasketed	1	76.0	0.0	0.0	714.1381
Column Well (24-in. Diam.)/Built-Up Col.-Sliding Cover, Ungask.	9	47.00	0.00	0.00	3974.7424
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1	14.00	5.40	1.10	131.5518
Access Hatch (24-in. Diam.)/Unbolted Cover, Ungasketed	1	36.00	5.90	1.20	338.2760

Total Losses (lb): 16350.89

Annual Emissions Report

	Losses (lbs.):					
Liquid Contents	Total Withdrawal	Rim-Seal	Total Deck-Fitting	Deck Seam	Standing	Total
RVP 15	267.83	386.20	10759.05	4937.81	16083.06	16350.89
Total:	267.83	386.20	10759.05	4937.81	16083.06	16350.89

Appendix D: HAP Emission Calculations

Company Name: TransMontaigne Terminaling, Inc.
Plant Location: 3821 Indianapolis Boulevard, East Chicago, IN 46312
County: Lake
Permit Reviewer: Manoj P. Patel
Date: May 14, 1998

	Gasoline	Distillate
Potential VOC emissions	24.5	0

HAP	HAP percentage by weight for Gasoline	HAP percentage by weight Distillate	HAP Emissions from Gasoline	HAP Emissions from Distillate
Hexane	1.60%	0	0.392	NA
Benzene	0.90%	0.000%	0.2205	0.0000
Toluene	1.30%	0.00%	0.3185	0.00
2,2,4 Trimethylpentane	0.80%	0.00%	0.196	NA
Xylene	0.50%	0.00%	0.1225	0.00
Ethyl Benzene	0.10%	0.00%	0.0245	0.000
MTBE	0.00%	0	0	NA
Phenol	NA	0.00%	NA	0.00
Naphthalene	NA	0.00%	NA	0.00
Cumene	NA	0.00%	NA	0.00
Biphenyl	NA	0.00%	NA	0.00
		Total HAPs (tons/year)	**1.274**	

METHODOLOGY

HAPS emission rate (tons/yr) = VOC Potential emissions (tons/year) * Weight % HAP
Worst case gasoline (oxygeneted) with MTBE is considered in the calculation.