Thomas M. McDermott, Jr.
Mayor

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
CITY OF HAMMOND
RONALD L. NOVAK
Director

July 31, 2007

William J. Day
Sr. HES Professional
Terminal, Transport & Marine
Marathon Petroleum Company LLC
1304 Olin Avenue
Indianapolis, IN 46222

Re: 089-24260-00231
Minor Source Modification to
Part 70 permit T089-15416-00231

Dear Mr. Day:

Marathon Petroleum Company was issued Part 70 operating permit T089-15416-00231 on April 12, 2004 for a Petroleum Bulk Terminal. An application to modify the source was received on December 19, 2006. Marathon's application was for the removal of secondary seals on two (2) petroleum liquid storage tanks. Pursuant to 326 IAC 2-7-10.5, the following emission units are approved for modification at the source:

Storage Tank No. 80-2
One (1) petroleum liquid (gasoline, distillate, or neat ethanol) storage tank, identified as Tank No. 80-2, with a maximum capacity of 3,390,240 gallons. The storage tank has an open, floating roof equipped with a geodesic dome. The floating roof is equipped with a mechanical shoe seal.

Storage Tank No. 80-6
One (1) petroleum liquid (gasoline, distillate, or neat ethanol) storage tank, identified as Tank No. 80-2, with a maximum capacity of 3,394,692 gallons. The storage tank has an open, floating roof equipped with a geodesic dome. The floating roof is equipped with a mechanical shoe seal.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).

2. This approval 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-

5925 Calumet Avenue
Hammond. IN 46320
219. 853.6306
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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.

3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval 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.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

The proposed operating conditions applicable to these emission units are attached to this Source Modification approval. These proposed operating conditions shall be incorporated into the Part 70 operating permit as a significant permit modification in accordance with 326 IAC 2-7-12. The Hammond Department of Environmental Management (HDEM) is aware that the aforementioned tank modifications have already been made by Marathon Petroleum Company. The issuance of this minor source modification approval in no way constitutes a resolution of violations associated with the modification and operation of the aforementioned tanks by Marathon Petroleum Company prior to obtaining the required approvals.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter call (219) 853-6306 and ask for Thomas J. Nyhan.

Sincerely,

Ronald L. Novak, Director
Hammond Department of Environmental Management
Air Pollution Control Division

Enclosure

TJN

cc: IDEM-OAQ, Mindy Hahn, Permits Administration

Thomas M. McDermott, Jr.
Mayor

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
CITY OF HAMMOND
RONALD L. NOVAK
Director

PART 70
MINOR SOURCE MODIFICATION

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

and

HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
AIR POLLUTION CONTROL DIVISION

Marathon Petroleum Company LLC
4206 Columbia Avenue
Hammond, Indiana 46327

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this approval.

This approval is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Minor Source Modification No.: 089-24260-00231	
Issued by: original signed by	Issuance Date: July 31, 2007
Ronald L. Novak, Director Hammond Department of Environmental Management	

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Hammond, IN 46320
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Minor Source Modification
089-24260-00231

Modified D Section

D.2 FACILITY OPERATION CONDITIONS - Storage Tanks 217-14, 125-10, 80-15, 80-8, 80-7, 80-6, 80-2, 55-12, 55-3, T-13, and T-5

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]
D.2.2 Storage Vessels [326 IAC 12] [40 CFR 60, Subpart K] [40 CFR 60, Subpart Kb] [326 IAC 8-9-4(a)]
D.2.3 Storage Vessels [326 IAC 12] [40 CFR 60, Subpart Kb] [326 IAC 8-9-4(c)] [326 IAC 8-4-3(b)]
D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.5 Monitoring [326 IAC 12] [40 CFR 60, Subpart Kb] [326 IAC 8-9-5(b)]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.6 Record Keeping Requirements
D.2.7 Reporting Requirements

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Storage Tanks

Eleven (11) petroleum liquid (gasoline, distillate, or neat ethanol) storage tanks, identified as tanks No. 217-14, 125-10, 80-15, 80-8, 80-7, 80-6, 80-2, 55-12, 55-3, T-13, and T-5. Tank specifications are as follows:

(a) Storage Tank No. 217-14 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 8,859,522 gallons.

(b) Storage Tank No. 125-10 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 5,141,052 gallons.

(c) Storage Tank No. 80-15 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 3,306,828 gallons.

(d) Storage Tank No. 80-8 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 3,426,024 gallons.

(e) Storage Tank No. 80-7 is an open floater tank equipped with a geodesic dome. The floating roof is equipped with a mechanical shoe seal and rim mounted wiper secondary seal. The tank has a maximum capacity of 3,413,802 gallons.

(f) Storage Tank No. 80-6 is an open floater tank equipped with a geodesic dome. The floating roof is equipped with a mechanical shoe type seal. The tank has a maximum capacity of 3,394,692 gallons.

(g) Storage Tank No. 80-2 is an open floater tank equipped with a geodesic dome. The floating roof is equipped with a mechanical shoe type seal. The tank has a maximum capacity of 3,390,240 gallons.

(h) Storage Tank No. 55-12 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 2,192,400 gallons.

(i) Storage Tank No. 55-3 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 2,321,634 gallons.

(j) Storage Tank No. T-13 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 201,600 gallons.

(k) Storage Tank No. T-5 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 76,944 gallons.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to tanks 217-14, 125-10, 80-15, 80-8, 80-6, 80-2, 55-3, T-13, and T-5 except when otherwise specified in 40 CFR 60, Subparts K or Kb.

D.2.2 Storage Vessels [326 IAC 12] [40 CFR 60, Subpart K] [40 CFR 60, Subpart Kb] [326 IAC 8-9-4(a)]

Pursuant to 326 IAC 8-9-4(b) and 40 CFR 60, Subpart K, or 40 CFR 60, Subpart Kb, tanks 217-14, 125-10, 80-15, 80-8, 80-7, 80-6, 80-2, 55-12, 55-3, T-13, and T-5 shall not store a volatile organic liquid (VOL) with a vapor pressure greater than or equal to eleven and one-tenth (11.1) psia as stored.

D.2.3 Storage Vessels [326 IAC 12] [40 CFR 60, Subpart Kb] [326 IAC 8-9-4(c)] [326 IAC 8-4-3(b)]

Pursuant to 40 CFR 60.112b(a) or 326 IAC 8-9-4(c), tanks 217-14, 125-10, 80-15, 80-8, 80-7, 80-6, 80-2, 55-12, 55-3, T-13, and T-5, shall be equipped with a fixed roof in combination with an internal floating roof meeting the following:

(a) 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 tank is completely 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.

(b) Each internal floating roof shall be equipped with a mechanical shoe seal. A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.

(c) The facility is maintained such that there are no visible holes, tears, or other openings in the seal or any seal fabric or materials.

(d) Each opening in a noncontact 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.

(e) 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.

(f) 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.

(g) 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.

(h) 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.

(i) 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.

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

D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.5 Monitoring [326 IAC 12] [40 CFR 60, Subpart Kb] [326 IAC 8-9-5(b)]

Pursuant to 40 CFR 60.113b(a) or 326 IAC 8-9-5(b), the owner or operator of tanks 217-14, 125-10, 80-15, 80-8, 80-7, 80-6, 80-2, 55-12, 55-3, T-13, and T-5 shall:

(a) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to the filling of the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the Permittee shall repair the items before filling the storage vessel.

(b) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the Permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected 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 IDEM, OAQ and HDEM in the inspection report required in 40 CFR 60.115b(a)(3). Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions that the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

(c) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the Permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years.

(d) Notify IDEM, OAQ and HDEM in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by paragraph (a) and (c) of this section to afford HDEM the opportunity to have an observer present. If the inspection required by (c) of this section is not planned and the Permittee could not have known about the inspection 30 days in advance of refilling the tank, the Permittee shall notify IDEM, OAQ and HDEM 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 IDEM, OAQ and HDEM at least 7 days prior to refilling.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.6 Record Keeping Requirements

(a) In accordance with 326 IAC 8-9-6(b) the owner or operator of tanks 217-14, 125-10, 80-15, 80-8, 80-7, 55-12, T-13, and T-5, shall maintain records of each vessel including the vessel identification number, dimensions, capacity, and a description of the emission control equipment shall be maintained for the life of the vessel.

(b) In accordance with 326 IAC 8-9-6(c) or 40 CFR 60.115b(a), a record of each inspection performed as required under Condition D.2.6 shall be maintained and shall identify the following:

(1) The vessel identification number

(2) The date of the inspection

(3) The observed condition of the seal, internal floating roof, and fittings.

(c) Pursuant to 40 CFR 60.113(a), 40 CFR 60.116b, and 326 IAC 8-4-3(d), the Permittee shall maintain a record of the petroleum liquid or VOL stored in tanks 217-14, 125-10, 80-15, 80-8, 80-7, 80-6, 80-2, 55-12, 55-3, T-13, and T-5, the period of storage, the maximum true vapor pressure of that liquid as stored, and the results of the inspections performed on the storage vessels.

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

D.2.7 Reporting Requirements

A report of any defects (the internal floating roof is not resting on the surface of the VOL, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric) discovered during the annual inspection required in D.2.6 shall be furnished to the IDEM, OAQ and HDEM within thirty (30) days of the inspection. The report shall identify the vessel identification number, the nature of the defects, and the date the vessel was emptied or the nature of and date the repair was made.

Indiana Department of Environmental Management
Office of Air Quality

and

Hammond Department of Environmental Management
Air Pollution Control Division

Technical Support Document (TSD) for a Part 70 Minor Source Modification and Significant Permit Modification

Source Description and Location

Source Name:	Marathon Petroleum Company LLC
Source Location:	4206 Columbia Ave., Hammond, Indiana 46327
County:	Lake County
SIC Code:	5171 Petroleum Bulk Terminal
Operation Permit No.:	T089-15416-00231
Operation Permit Issuance Date:	April 12, 2004
Significant Permit Modification No.:	089-24092-00231
Permit Reviewer:	Thomas J. Nyhan - HDEM

Existing Approvals

The source was issued Part 70 Operating Permit No. T089-15416-00231 on April 12, 2004. The source has since received the following approvals:

(a) Administrative Amendment No. 089-19791-00231, issued on November 17, 2004; and

(b) Administrative Amendment No. 089-21940-00231, issued on November 9, 2005.

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM_{10}	Attainment
$PM_{2.5}$	Nonattainment
SO_2	Attainment
NO_2	Attainment
8-hour Ozone	Moderate Nonattainment
CO	Attainment
Lead	Attainment

(a) Volatile organic compounds (VOC) and nitrogen oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. Lake

County has been designated as moderate non-attainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

(b) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.

(c) U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Lake County as nonattainment for PM2.5. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM10 emissions as a surrogate for PM2.5 emissions pursuant to the requirements of nonattainment new source review.

(d) Lake County has been classified as nonattainment for PM2.5. Therefore, these emissions were reviewed pursuant to the requirements for nonattainment new source review, 326 IAC 2-1.1-5.

(e) Lake County has been classified as attainment or unclassifiable for PM10, SO_2, CO, and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(f) Since this source is classified as a petroleum storage and transfer unit with a total storage capacity exceeding three hundred thousand (300,000) barrels, it is considered one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

(g) Fugitive Emissions
Since this type of operation is in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are counted toward the determination of PSD and Emission Offset applicability.

Source Status

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

Pollutant	Emissions (tons/year)
PM	0
PM10	0
SO_2	0
VOC	> 100
CO	0
NO_x	0

(a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no attainment regulated pollutant is emitted at a rate of 100 tons per year or more, and it is one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

(b) This existing source is a major stationary source under Emission Offset (326 IAC 2-3) because volatile organic compounds (VOC), a nonattainment regulated pollutant, is emitted at a rate of one hundred (100) tons per year or more in a nonattainment area.

(c) These emissions are based upon the potential to emit as reported in the source's 2005 emission statement and the allowable emissions as determined by HDEM.

The table below summarizes the potential to emit HAPs for the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

HAPs	Potential To Emit (tons/year)
Benzene	1.48
Ethylbnezene	0.16
Hexane	2.64
2,2,4-Trimethylpentane	1.32
Toluene	2.14
Xylene	0.82
TOTAL	8.58

This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because HAPs emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2005 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	0
PM10	0
SO_2	0
VOC	63.41
CO	0
NO_x	0
Benzene	0.53
Ethylbenzene	0.06
Hexane	0.93
2,2,4-Trimethylpentane	0.47
Toluene	0.77
Xylene	0.32

Description of Proposed Modification

HDEM has reviewed a modification application, submitted by Marathon Petroleum Company LLC on December 19, 2006, relating to the storage of distillate in Tank AA-1-4 and the removal of secondary seals from Tanks 80-2 and 80-6. Marathon Petroleum Company initially informed HDEM in January of 2006 that secondary seals were removed from Tanks 80-2 and 80-6 in August of 1999 and March of 1998, respectively. Removal of these seals is considered a modification because it results in an increase in the emission rate of VOC. This modification subjects the tanks to regulation under 40 CFR Part 60, Subpart Kb. HDEM was unaware of these modifications at the time the original permit was issued on April 12, 2004. It was determined that

a significant permit modification was needed to revise the permit and reflect the modifications made at the source. The storage of distillate in Tank AA-1-4 does not increase the potential to emit for any regulated pollutants thus this change is not a modification. Only a change in the permit language is necessary for Tank AA-1-4. On July 31, 2007, Marathon stated that they intend to replace the existing Tank AA-1-3 with a different style tank. The new tank will remain an insignificant activity in that its capacity will be less than 1,000 gallons and the annual throughput will be less than 12,000 gallons. Only a change in the permit language will be needed to address this tank replacement. The following is a list of the modified emission units:

(a) Storage Tank No. 80-6 is an open floater tank equipped with a geodesic dome. The floating roof is equipped with a mechanical shoe type seal. The tank has a maximum capacity of 3,394,692 gallons. The tank was constructed in 1965. A geodome was installed on the tank in May of 1990. A secondary seal was removed in March of 1998.

(b) Storage Tank No. 80-2 is an open floater tank equipped with a geodesic dome. The floating roof is equipped with a mechanical shoe type seal. The tank has a maximum capacity of 3,390,240 gallons. The tank was constructed in 1965. A geodome was installed on the tank in May of 1990. A secondary seal was removed in August of 1999.

(c) Storage Tank No. AA-1-4 is a horizontal fixed roof tank storing gasoline, distillate, or distillate additive with a maximum design capacity of 462 gallons.

(d) Storage Tank No. AA-1-3 is a tote style tank storing distillate dye additive with a maximum design capacity of 550 gallons.

Enforcement Issues

HDEM is aware that equipment has been modified prior to receipt of the proper permit. A violation letter was issued to Marathon Petroleum Company on May 17, 2007. This proposed approval is intended to satisfy the requirements of the construction permit rules.

Stack Summary

There are no stacks associated with the modified storage tanks.

Emission Calculations

See Appendix A of this document for detailed emission calculations (twenty-seven (27) pages).

Permit Level Determination – Part 70

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency.”

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	PTE Before Modification (tons/year)	PTE After Modification (tons/year)	Net Difference (tons/year)	Net Difference (lbs/day)
PM	0	0	0	0
PM10	0	0	0	0
SO_2	0	0	0	0
VOC	0.95	5.34	4.39	24.05
CO	0	0	0	0
NO_X	0	0	0	0
Benzene	0.009	0.048	0.039	0.21
Ethylbenzene	0.001	0.005	0.004	0.02
Hexane	0.015	0.085	0.070	0.38
2,2,4-Trimethylpentane	0.008	0.043	0.035	0.19
Toluene	0.012	0.069	0.057	0.31
Xylene	0.005	0.027	0.022	0.12

This source modification (removal of the secondary seals from Tanks 80-2 and 80-6) is subject to 326 IAC 2-7-10.5(d)(9) because it will result in an increase equal to or greater than fifteen (15) pounds per day of VOCs. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d), because the modification subjects Tanks 80-2 and 80-6 to regulation under NSPS Subpart Kb which is considered a Title I modification.

Permit Level Determination – PSD or Emission Offset

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 source and permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

	Potential to Emit (tons/year)						
Process/Emission Unit	**PM**	**PM10**	**SO_2**	**VOC**	**CO**	**NO_X**	***(Other) (Pb, Be, Hg, etc.)***
Tank AA-1-4	0	0	0	0.015	0	0	0
Tank 80-2	0	0	0	2.690	0	0	0
Tank 80-6	0	0	0	2.647	0	0	0
Total for Modification	0	0	0	5.352	0	0	0
Significant Level or Major Source Threshold	25	15	40	40	100	40	0.6

This modification to an existing PSD minor stationary source is not major because the emissions increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

This modification to an existing EO 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.

Lake County has been designated as nonattainment for PM 2.5 in 70 FR 943 dated January 5, 2005. According to the April 5, 2005 EPA memo titled "Implementation of New Source Review Requirements in PM2.5 Nonattainment Areas" authored by Steve Page, Director of OAQPS, until EPA promulgates the PM2.5 major NSR regulations, states should assume that a major stationary source's PM10 emissions represent PM2.5 emissions. IDEM will use the PM10 nonattainment major NSR program as a surrogate to address the requirements of nonattainment major NSR for the PM2.5 NAAQS. A major source in a nonattainment area is a source that emits or has the potential to emit one hundred (100) tons per year of any nonattainment regulated pollutant. Marathon Petroleum Company LLC has a limited potential to emit of PM10 below one hundred (100) tons per year. Therefore, assuming that PM10 emissions represent PM2.5 emissions, 326 IAC 2-1.1-5 (nonattainment new source review) does not apply for PM2.5.

Federal Rule Applicability Determination

The following federal rules are applicable to the source due to this modification:

(a) Tanks 80-2 and 80-6 are now subject to the New Source Performance Standards for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Comenced After July 23, 1984 (40 CFR 60.110b, Subpart Kb), which is incorporated by reference as 326 IAC 12. The tanks meet all the criteria for applicability since they have now been modified after July 23, 1984.

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this proposed modification.

(c) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:

(1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;

(2) is subject to an emission limitation or standard for that pollutant; and

(3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The requirements of 40 CFR Part 64, CAM are not applicable to these modified emission units because Tanks 80-2 and 80-6 do not have an uncontrolled PTE greater than the major source threshold for any of the criteria pollutants.

State Rule Applicability Determination

The following state rules are applicable (or non-applicable) to the source due to the modification:

<u>326 IAC 2-2 and 2-3 (PSD and Emission Offset)</u>
PSD and Emission Offset applicability is discussed under the Permit Level Determination - PSD and Emission Offset section.

<u>326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)</u>
This rule is no longer applicable to Tanks 80-2 and 80-6 because the tanks are now subject to 40 CFR 60, Subpart Kb. Storage vessels which are subject to any provision of 40 CFR 60, Subpart Kb are exempted from regulation under 326 IAC 8-9 by 326 IAC 8-9-2(8).

326 IAC 12 (New Source Performance Standards)
This rule incorporates all New Source Performance Standards including 40 CFR 60, Subpart Kb. Due to the modification, Tanks 80-2 and 80-6 are now subject to 40 CFR 60, Subpart Kb.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a sourcess failure to take the appropriate corrective actions within a specific time period.

There are no Compliance Determination Requirements applicable to this modification.

The Compliance Monitoring Requirements applicable to this modification are as follows:

Pursuant to 40 CFR 60.113b(a), the owner or operator of Tanks 80-2 and 80-6 shall:

(a) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to the filling of the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the Permittee shall repair the items before filling the storage vessel.

(b) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the Permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected 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 IDEM, OAQ and HDEM in the inspection report required in 40 CFR 60.115b(a)(3). Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions that the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

(c) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the Permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling

the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years.

(d) Notify IDEM, OAQ and HDEM in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by paragraph (a) and (c) of this section to afford HDEM the opportunity to have an observer present. If the inspection required by (c) of this section is not planned and the Permittee could not have known about the inspection 30 days in advance of refilling the tank, the Permittee shall notify IDEM, OAQ and HDEM 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 IDEM, OAQ and HDEM at least 7 days prior to refilling.

Proposed Changes

1. The responsible official has been deleted from the general information section A.1.

2. A.2(b)(7) has been changed to reflect that Tank 80-2 no longer has a secondary seal. A.2(b)(6) and A.2(b)(7) have been changed to show the dates when the tank seals were modified.

3. A.3(a)(2) has been changed to show that Tank AA-1-4 can store distillate in addition to gasoline and distillate additive.

4. A.3(a)(1) has been change to show the change in this tank's design and capacity.

5. IDEM has decided to include the following updates to further address and clarify the permit term and the term of the conditions. This includes the addition of the condition: B.3 Term of Conditions [326 IAC 2-1.1-9.5] and changes to the following conditions: B.2 Permit Term, B.13 Prior Permits Superseded, B.14 Termination of Right to Operate and B.17 Permit Renewal. Condition B.4, Termination of Right to Operate, has been renumbered to become Condition B.14.

6. IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, IDEM has deleted paragraph (b) of Condition B.10 – Preventive Maintenance and has amended Condition B.11 – Emergency Provisions.

7. Language changes have been made to Conditions B.21 (Source Modification Requirements) and B.24 (Annual Fee Payment) for clarification and to update the conditions with the most current information.

8. For clarification purposes, Condition B.20 - Operational Flexibility has been revised.

9. In accordance with the credible evidence rule (62 Fed. Reg. 8314, Feb. 24, 1997); Section 113(a) of the Clean Air Act, 42 U.S.C. § 7413 (a); and a letter from the United States Environmental Protection Agency (USEPA) to IDEM, OAQ dated May 18, 2004, all permits must address the use of credible evidence; otherwise, USEPA will object to the permits. A condition for Credible Evidence has been added to Section B of the permit.

10. In order to avoid duplication of requirements which may be included in D sections, Condition C.5, Operation of Equipment, has been removed from the permit. Subsequent conditions have been renumbered.

11. IDEM realizes that the specifications of Condition C.10 - Pressure Gauge Specifications, can only be practically applied to analog units, and has therefore clarified the condition to state that the condition only applies to analog units. Upon further review, IDEM has also determined that the accuracy of the instruments is not nearly as important as whether the instrument has a range that is appropriate for the normal expected reading of the parameter. Therefore, the language in Condition C.10 has been revised.

12. IDEM has reconsidered the requirement to develop and follow a Compliance Response Plan. The Permittee will still be required to take reasonable response steps when a compliance monitoring parameter is determined to be out of range or abnormal. Replacing the requirement to develop and follow a Compliance Response Plan with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated. Therefore, the condition for "Compliance Response Plan" has been replaced by the condition for "Response to Excursions or Exceedances". <u>The Section D conditions that refer to this condition have been revised to reflect the new condition title.</u>

13. The record keeping and reporting requirements contained in Conditions C.16 and C.17 were updated to include the requirements relating to "projects" (as defined in 326 IAC 2-2-1(qq) or 326 IAC 2-3-1(ll)).

14. The description box for Section D.2 was changed to show that Tank 80-2 no longer has a secondary seal.

15. Condition D.2.2 was modified to incorporate 40 CFR Part 60, Subpart Kb.

16. The reference to Tanks 80-2 and 80-6 was removed from Condition D.2.7(a). This condition is no longer applicable to Tanks 80-2 and 80-6 since they are now exempted from 326 IAC 8-9.

17. The description box for Section D.3 was changed to show that Tank AA-1-4 can now store distillate in addition to gasoline and distillate additive. Also, the description for Tank AA-1-3 has been changed to reflect the changes in the tank's capacity and design.

18. Telephone and facsimile numbers for IDEM's Compliance Section have been updated throughout the permit.

19. In Sections B and C, the IDEM addresses in Conditions B.9, B.11, B.15, B.17, B.18, B.20, B.23, C.7, C.9, and C.18 were corrected to add the mail codes as follows:

    100 North Senate Avenue
    MC 61-53 IGCN 1003
    Indianapolis, Indiana 46204-2251

    In Condition C.16 the mail code for the Technical Support Section was added as follows:

    100 North Senate Avenue
    MC 61-50 IGCN 1003
    Indianapolis, Indiana 46204-2251

The changes listed below have been made to Part 70 Operating Permit No. T089-15416-00231. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

SECTION A **SOURCE SUMMARY**

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and Hammond Department of Environmental Management (HDEM). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary Bulk Petroleum Products Distribution Terminal.

~~Responsible Official:~~	~~District Manager or Manager, Terminal, Transport & Marine~~
Source Address:	4206 Columbia Avenue, Hammond, Indiana 46327
Mailing Address:	HESS – TT&M 539 South Main Street, Findlay, OH 45840
General Source Phone Number:	(219) 932-1024
SIC Code:	5171 - Petroleum Bulk Terminal
County Location:	Lake County
Source Location Status:	~~Attainment/Unclassifiable for CO,~~ ~~Primary Nonattainment for SO2,~~ ~~Attainment for PM10, and~~ ~~Severe Nonattainment for Ozone~~ **Nonattainment for $PM_{2.5}$** **Nonattainment for ozone under the 8-hour standard** **Attainment for all other criteria pollutants**
Source Status:	Part 70 Permit Program Minor Source under PSD Major Source under Emission Offset Major Source, Section 112 of the Clean Air Act **1 of 28 Source Categories**

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

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

(a) One (1) Tank Truck Loading Operation where gasoline and fuel oil are bottom-loaded into transport trucks. Displaced hydrocarbon emissions are controlled by a John Zink Carbon Adsorption/Absorption Vapor Recovery Unit (VRU). The loading operation includes three (3) loading racks and has a maximum loading capacity of 841,000,000 gallons per year. This operation also utilizes a stand-by control device: one (1) Portable Trailer Mounted Vapor Combustor. The loading racks were installed in 1979 and the VRU was installed in September of 1990.

(b) Eleven (11) petroleum liquid (gasoline, distillate, or neat ethanol) storage tanks, identified as tanks No. 217-14, 125-10, 80-15, 80-8, 80-7, 80-6, 80-2, 55-12, 55-3, T-13, and T-5. Tank specifications are as follows:

(1) Storage Tank No. 217-14 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 8,859,522 gallons. The tank was constructed in January of 1976.

(2) Storage Tank No. 125-10 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 5,141,052 gallons. The tank was constructed in January of 1974.

(3) Storage Tank No. 80-15 has an internal floating roof with a mechanical shoe type seal and has a

maximum capacity of 3,306,828 gallons. The tank was constructed in January of 1976.

(4) Storage Tank No. 80-8 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 3,426,024 gallons. The tank was constructed in January of 1974.

(5) Storage Tank No. 80-7 is an open floater tank equipped with a geodesic dome. The floating roof is equipped with a mechanical shoe seal and rim mounted wiper secondary seal. The tank has a maximum capacity of 3,413,802 gallons. The tank was constructed in 1965. A geodome was installed on the tank in May of 1990.

(6) Storage Tank No. 80-6 is an open floater tank equipped with a geodesic dome. The floating roof is equipped with a mechanical shoe type seal. The tank has a maximum capacity of 3,394,692 gallons. The tank was constructed in 1965. A geodome was installed on the tank in May of 1990. **In August of 1998, the rim mounted wiper secondary seal was removed from this tank.**

(7) Storage Tank No. 80-2 is an open floater tank equipped with a geodesic dome. The floating roof is equipped with a mechanical shoe type seal ~~and a rim mounted wiper secondary seal~~. The tank has a maximum capacity of 3,390,240 gallons. The tank was constructed in 1965. A geodome was installed on the tank in May of 1990. **In March of 1999, the rim mounted wiper secondary seal was removed from this tank.**

(8) Storage Tank No. 55-12 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 2,192,400 gallons. The tank was constructed in January of 1965.

(9) Storage Tank No. 55-3 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 2,321,634 gallons. The tank was constructed in 1965. The tank was permitted to be modified for gasoline service in March of 2003.

(10) Storage Tank No. T-13 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 201,600 gallons. The tank was constructed in January of 1974.

(11) Storage Tank No. T-5 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 76,944 gallons. The tank was constructed in January of 1965.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

(a) The following storage tanks with capacities less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.

(1) Storage Tank No. AA-1-3 is a ~~fixed cone roof~~ **tote style** tank storing distillate dye additive with a maximum design capacity of ~~462~~ **550** gallons.

(2) Storage Tank No. AA-1-4 is a horizontal fixed roof tank storing gasoline**, distillate,** or distillate additive with a maximum design capacity of 462 gallons.

(b) The following storage tanks which emit less than one (1) ton per year of a single HAP and less than fifteen (15) pounds per day of VOC:

(1) Storage Tank No. 80-11 is a fixed cone roof tank storing distillate with a maximum design capacity of 3,424,974 gallons

(2) Storage Tank No. 80-1 is a fixed cone roof tank storing distillate with a maximum design capacity of 3,418,128 gallons.

(3) Storage Tank No. 80-9 is a fixed cone roof tank storing distillate with a maximum design capacity of 3,414,222 gallons.

(4) Storage Tank No. 80-4 is a fixed cone roof tank storing distillate with a maximum design capacity of 3,402,714 gallons.

(5) Storage Tank No. AA-8-1 is a fixed roof tank storing gasoline or distillate additive with a maximum design capacity of 7,434 gallons.

(6) Storage Tank No. AA-8-2 is a fixed roof tank storing gasoline or distillate additive with a maximum design capacity of 7,686 gallons.

(7) Storage Tank No. WA-12-1 is a horizontal fixed roof tank storing petroleum contact water with a maximum design capacity of 12,222 gallons.

(8) Storage Tank No. WA-12-2 is a horizontal fixed roof tank storing petroleum contact water with a maximum design capacity of 12,222 gallons.

(9) Storage Tank No. AA-8-3 is a horizontal fixed roof tank storing gasoline or distillate additive with a maximum design capacity of 8,000 gallons.

(c) A laboratory as defined in 326 IAC 2-7-1(21)(D).

(d) Natural gas-fired furnaces with heat inputs less than ten million (10,000,000) British thermal units per hour.

(e) Process vessel degassing and cleaning to prepare for internal repairs.

(f) Groundwater oil recovery wells.

(g) Paved and unpaved roads and parking lots with public access.

(h) Stockpiled soils from soil remediation activities that are covered and waiting transport for disposal.

(i) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process

(j) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup. The equipment includes: catch tanks, temporary liquid separators, tanks, and fluid handling equipment.

(k) Abrasive blasting controlled with fabric filters with a design grain loading of less than or equal to three one-hundredths (0.03) grains per actual cubic foot and a gas flow rate less than or equal to four thousand (4,000) actual cubic feet per minute.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

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)**;**

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 Applicability).

SECTION B **GENERAL CONDITIONS**

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

~~B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5]~~

~~This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.~~

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5] [326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]

(a) This permit, T089-15416-00231, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ and HDEM, upon receiving a timely and complete renewal application, fail to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

(a) the condition is modified in a subsequent permit action pursuant to Title 1 of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.~~3~~**4** Enforceability [326 IAC 2-7-7]

(a) Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, HDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

(b) Unless otherwise stated, all terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by HDEM.

B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

(a) The Permittee shall furnish to IDEM, OAQ and HDEM, within a reasonable time, any information that IDEM, OAQ, and HDEM may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ and HDEM copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U.S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.

(c) A responsible official is defined in 326 IAC 2-7-1(34).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

(b) The annual compliance certification report 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, OAQ and HDEM on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ and HDEM may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain Preventive Maintenance Plans (PMPs) including the following information on each facility:

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

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

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

~~(b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.~~

(~~c~~**b**) A copy of the PMPs shall be submitted to IDEM, OAQ and HDEM upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ and HDEM. IDEM, OAQ and HDEM may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

(~~d~~**c**) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ and HDEM within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

IDEM
Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-~~5674~~**0178** (ask for Compliance Section)
Facsimile Number: 317-233-~~5967~~**6865**

HDEM
Telephone Number: 219-853-6306
Facsimile Number: 219-853-6343

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification, which shall be submitted by the Permittee, does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) ~~IDEM, OAQ and HDEM may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(9) be revised in response to an emergency.~~ **The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ and HDEM may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.**

(f) Failure to notify IDEM, OAQ and HDEM by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

(g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.12 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement, IDEM, OAQ or HDEM shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ or HDEM has issued the modifications. [326 IAC 2-7-12(c)(7)]

(g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ or HDEM has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated,

(2) revised **under 326 IAC 2-7-10.5**, or

(3) deleted **under 326 IAC 2-7-10.5.**

~~by this permit.~~

(b) ~~All previous registrations and permits are superseded by this permit.~~ **Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this combined new source review and Part 70 operating permit.**

B.14 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.14**5** Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.15~~5~~**6** Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ or HDEM determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ or HDEM to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ or HDEM at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ and HDEM may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16~~7~~**7** Permit Renewal [326 IAC 2-7-4]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and HDEM, and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(40) and 326 IAC 2-7-1(21). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

~~(b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]~~

~~(a) A timely renewal application is one that is:~~

~~(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and~~

~~(B) 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, OAQ and HDEM on or before the date it is due.~~

~~(2) If IDEM, OAQ or HDEM, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.~~

~~(c) Right to Operate After Application for Renewal [326 IAC 2-7-3]~~

~~If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ and HDEM, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ and HDEM, any additional information identified as being needed to process the application.~~

(b) A timely renewal application is one that is:

(1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(2) 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, OAQ and HDEM on or before the date it is due.

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ and HDEM take final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ and HDEM any additional information identified as being needed to process the application.

~~(d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]~~

~~If IDEM, OAQ and HDEM fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.~~

B.1~~7~~**8** Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.1~~8~~**9** Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]

(a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

(b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.~~19~~**20** Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the ~~emissions allowable under~~ **limitations provided in** this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)

77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ and HDEM in the notices specified in 326 IAC 2-7- 20(b)(1), (c)(1), and (e)(2).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

(e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.2~~0~~**1** Source Modification Requirement [326 IAC 2-7-10.5]

(a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

(b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2-2 or 326 IAC 2-3-2.

B.2~~1~~**2** Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1] [IC 13-7-3-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee’s right under all applicable laws and regulations to assert that the

information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, HDEM and U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.2~~2~~3 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue,
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, IN 46320

The application 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) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.2~~3~~4 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ and HDEM within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ and HDEM the applicable fee is due April 1 of each year.

(b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, ~~I/M &~~ Billing**, Licensing, and Training** Section), to determine the appropriate permit fee.

B.25 Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permitee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C **SOURCE OPERATION CONDITIONS**

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.2 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. 326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.

C.3 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. ~~326 IAC 9-1-2 is not federally enforceable.~~

C.4 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

~~C.5 Operation of Equipment [326 IAC 2-7-6(6)]~~

~~Except as otherwise provided by statute or rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.~~

C.~~6~~**5** Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18][40 CFR 61, Subpart M]

(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

(C) 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 Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable 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) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) 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 to use an Indiana Accredited Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.~~7~~**6** 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 any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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 Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ and HDEM not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ and HDEM, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.~~8~~**7** Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.~~9~~**8** Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within thirty (30) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, equipment cannot be installed and operated within thirty (30) days, the Permittee may extend the compliance schedule related to the equipment for an additional thirty (30) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

in writing, prior to the end of the initial thirty (30) day compliance schedule, with full justification of the reasons for the inability to meet this date.

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).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.~~10~~**9** Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.1~~1~~**0** Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

(a) ~~Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.~~ **When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.**

(b) The Permittee may request the IDEM, OAQ or HDEM approve the use of a**n** ~~pressure gauge or other~~ instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative ~~pressure gauge or other~~ instrument specification will adequately ensure compliance with permit conditions requiring the measurement of ~~pressure drop or other~~ **the** parameters.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.1~~2~~**1** 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 prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on March 31, 1997. The Permittee submitted an update to its ERP on February 29, 2000.

(b) Upon direct notification by IDEM, OAQ or HDEM, 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.1~~3~~**2** Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68 is present at a source in more than a threshold quantity, the ~~source~~ **Permittee** must comply with the applicable requirements of 40 CFR 68.

~~C.14 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-7-5] [326 IAC 2-7-6]~~

~~(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have an Operation, Maintenance and Monitoring (OMM) Plan under 40 CFR 60/63, such plans shall be deemed to satisfy the~~

~~requirements for a CRP for those compliance monitoring conditions. A CRP shall be submitted to IDEM, OAQ and HDEM upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:~~

~~(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.~~

~~(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan to include such response steps taken.~~

~~The OMM Plan shall be submitted within the time frames specified by the applicable 40 CFR 60/63 requirement.~~

~~(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:~~

~~(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan; or~~

~~(2) If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.~~

~~(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten 10 days or more until the unit or device will be shut down. The notification shall also include then the permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.~~

~~(4) Failure to take reasonable response steps shall be considered a deviation of the permit.~~

~~(c) The Permittee is not required to take any further response steps for any of the following reasons:~~

~~(1) A false reading occurs due to the malfunction of the monitoring equipment and 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 a minor permit modification to the permit, and such request has not been denied.~~

~~(3) An automatic measurement was taken when the process was not operating.~~

~~(4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.~~

~~(d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee~~

~~shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.~~

~~(e) The Permittee shall record all instances when, in accordance with Section D, response steps are 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.~~

~~(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.~~

C.13 Response to Excursions and Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records;

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

C.1~~5~~**4** Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

(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 response actions. The Permittee shall submit a description of these response actions

to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(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, OAQ that retesting in one-hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.1~~6~~**5** Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

~~(a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), the Permittee shall submit by July 1 an emission statement covering the previous calendar year as follows:~~

~~(1) starting in 2007 and every three (3) years thereafter, and~~

~~(2) any year not already required under (1) if the source emits volatile organic compounds or oxides of nitrogen into the ambient air at levels equal to or greater than twenty-five (25) tons during the previous calendar year.~~

(~~b~~**a**) **Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year.** The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

(1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

(2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The emission statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

The emission statement does require the certification by the responsible official as defined by 326 IAC 2-7-1(34).

(~~c~~**b**) The 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, OAQ and HDEM on or before the date it is due.

C.1~~7~~**6** General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]

(a) Records of all required monitoring data, reports and support information required by this Permit 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 physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or HDEM makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner and HDEM within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

(c) If there is a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emission unit, other than at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with the following:

(1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, document and maintain the following records:

(A) A description of the project.

(B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.

(C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:

(i) Baseline actual emissions;
(ii) Projected actual emissions;
(iii) Amount of emissions excluded under section 326 IAC 2-2-1 (rr)(2)(A)(iii) or 326 IAC 2-3-1(mm)(2)(A)(3); and
(iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

(2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and

(3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.1~~8~~**7** General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

(a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC

2-7-1(34).

(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 Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

(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, OAQ and HDEM on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) Reporting periods are based on calendar years**, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.**

(f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C – General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) or 326 IAC 2-3-1(ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ and HDEM:

(1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C - General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1(xx) or 326 IAC 2-3-1(qq), for that regulated NSR pollutant, and

(2) The emissions differ from the preconstruction projection as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(ii).

(g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:

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

(2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C- General Record Keeping Requirements.

(3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) or 326 IAC 2-3-2(c)(3).

(4) Any other information that the Permittee deems fit to include in this report.

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room 304
Hammond, Indiana 46320

(h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ or HDEM. The general public may request this information from the IDEM, OAQ or HDEM under 326 IAC 17.1.

Stratospheric Ozone Protection

C.1~~9~~**8** 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

Facility Description [326 IAC 2-7-5(15)]: Loading Rack

One (1) Tank Truck Loading Operation where gasoline and fuel oil are bottom-loaded into transport trucks. Displaced hydrocarbon emissions are controlled by a John Zink Carbon Adsorption/Absorption Vapor Recovery Unit (VRU). The loading operation includes three (3) loading racks and has a maximum loading capacity of 841,000,000 gallons per year. This operation also utilizes a stand-by control device: one (1) Portable Trailer Mounted Vapor Combustor.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the loading rack except when otherwise specified in 40 CFR 60, Subpart XX.

D.1.2 Volatile Organic Compound (VOC) [326 IAC 12] [40 CFR 60, Subpart XX] [326 IAC 8-4-4] [326 IAC 8-4-9]

(a) The Tank Truck Loading Rack shall be equipped with a vapor collection system designed to collect the total organic compounds vapors displaced from tank trucks during product loading and direct the vapors to either the Vapor Recovery Unit (VRU) or the Vapor Combustor.

(b) No loading of gasoline into tank trucks shall take place unless the control device to which the vapors are being directed is: in operation, in good working order, and in compliance with D.1.2(c). Distillate having a Reid vapor pressure less than twenty-seven and six-tenths (27.6) kilopascals may be loaded without the VRU or Vapor Combustor being in operation.

(c) The emissions to the atmosphere from the VRU or Vapor Combustor due to the loading of liquid product into gasoline tank trucks are not to exceed thirty five (35) milligrams of total organic compounds per liter of gasoline loaded, except as noted in paragraph (c) of 40 CFR 60.502.

(d) The backup portable trailer mounted vapor combustor shall be designed and operated to meet the following requirements, at all times when emissions may be vented to this control device:

(1) no visible emissions except for periods not to exceed 5 minutes in a two hour period,

(2) flare pilot flame present as determined through the use of a thermocouple or any other equivalent device to detect the presence of a flame,

(3) gas being combusted shall have a heat content of 300 Btu/scf or greater, and

(4) an exit velocity less than 55 ft/sec.

(e) Each vapor collection system shall be designed to prevent any total organic compounds vapors collected at one loading rack from passing to another loading rack.

(f) Loadings of liquid product into gasoline tank trucks shall be limited to vapor-tight gasoline tank trucks using the following procedures:

(1) The Permittee shall obtain the vapor tightness documentation described in 40 CFR 60.505(b) for each gasoline tank truck which is to be loaded at the affected facility.

(2) The Permittee shall review the vapor tightness documentation to insure that each gasoline truck has successfully demonstrated vapor tightness according to the procedures in 40 CFR Part 60,

Method 27. Each tank truck must be tested annually. During the test, the tank truck must sustain a pressure change of no more than one (1) inch of water in five (5) minutes when pressurized to eighteen (18) inches of water.

(3) The Permittee shall record the tank identification number of each gasoline tank truck loaded at the facility.

(4) The Permittee shall cross-check each tank identification number obtained in paragraph D.1.2(f)(3) with the file of tank vapor tightness documentation within 2 weeks after the corresponding tank is loaded.

(5) The Permittee shall notify the owner or operator of each non-vapor-tight gasoline tank truck loaded at the affected facility within 3 weeks after the loading has occurred.

(6) The Permittee shall take steps assuring that the non-vapor-tight gasoline tank truck will not be reloaded at the affected facility until vapor tightness documentation for that tank is obtained.

(7) Alternate procedures to those described in paragraphs (e)(1) through (5) of 40 CFR 60.502 for limiting gasoline tank truck loadings may be used upon application to, and approval by, the IDEM, OAQ and HDEM.

(g) The Permittee shall act to assure that loadings of gasoline tank trucks at the affected facility are made only into tanks equipped with vapor collection equipment that is compatible with the terminal's vapor collection system.

(h) The Permittee shall act to assure that the terminal's and the tank truck's vapor collection systems are connected during each loading of a gasoline tank truck at the affected facility. Examples of actions to accomplish this include training drivers in the hookup procedures and posting visible reminder signs at the affected loading racks.

(i) The vapor collection and liquid loading equipment shall be designed and operated to prevent gauge pressure in the tank truck from exceeding 4,500 pascals (450 mm of water) and a vacuum from exceeding one thousand five hundred (1,500) pascals (6 inches of water) during product loading. This level is not to be exceeded when measured by the procedures specified in 40 CFR 60.503(d).

(j) The Permittee shall repair and retest a vapor collection or control system that exceeds the limits in D.1.2(i) within fifteen (15) days.

(k) No pressure-vacuum vent in the bulk gasoline terminal's vapor collection system shall begin to open at a system pressure less than 4,500 pascals (450 mm of water).

(l) A means shall be provided to prevent liquid drainage from the loading device when it is not in use or to accomplish complete drainage before the loading device is disconnected.

(m) The Permittee shall operate the vapor control system and gasoline loading rack in a manner that prevents avoidable visible liquid leaks during loading or unloading operations.

(n) All loading and vapor lines are equipped with fittings which make vapor-tight connections and which will be closed upon disconnection.

D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control equipment.

Compliance Determination Requirements

D.1.4 Testing Requirements [326 IAC 2-7-6(1)]

A compliance stack test shall be performed to demonstrate compliance with the VOC limit of (35) mg/l of gasoline loaded at the exhaust of the vapor control system. The test shall be completed within twenty-four (24) months of issuance of this permit and repeated no less than once every 5 years thereafter. Testing shall be performed in accordance with 326 IAC 3-6 using methods acceptable to the Commissioner.

D.1.5 Inspection Requirements

Each calendar month, the vapor collection system, the vapor processing system, and each loading rack handling gasoline shall be inspected during the loading of gasoline tank trucks for total organic compounds liquid or vapor leaks in accordance with 40 CFR 60.502(j). The source of the leak shall be repaired within 15 calendar days after it is detected.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.6 Monitoring

(a) When operating the carbon adsorber to control VOC emissions during loading at the truck loading rack, the Permittee shall monitor and continuously record the carbon bed pressure in a manner indicating the carbon bed regeneration cycle. The carbon bed shall be regenerated once every fifteen (15) minutes.

Each scheduled workday, the Permittee shall conduct an inspection of the carbon bed pressure records for any deviations in the carbon bed regeneration cycle time since the last inspection. The Permittee shall install and maintain an automated system which prevents the loading of gasoline and alerts the facility's operators when the carbon bed regeneration cycle time exceeds fifteen (15) minutes. ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when the regeneration cycle is outside the above mentioned range for any one (1) reading.~~ Failure to take **reasonable** response steps in accordance with **Condition C.13 - Response to Excursions and Exceedances**, shall be considered a deviation from this permit.

(b) When operating the vapor combustor (flare) to control VOC emissions, the Permittee shall install and maintain a monitor to detect the presence of a flame at the flare tip. The presence of a flame at the flare tip shall be monitored at all times when the vapors are being vented to the flare. The monitor shall be equipped with an automatic alarm which activates when the presence of a flame is not detected during periods when gasoline vapors are being vented to the flame. ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when the presence of a flame is not detected.~~ Failure to take **reasonable** response steps in accordance with **Condition C.13 - Response to Excursions and Exceedances**, shall be considered a deviation from this permit

(c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.7 Record Keeping Requirements

(a) To document compliance with Condition D.1.2(f), the documentation file for each gasoline tank truck shall be updated at least once per year to reflect current test results as determined by Method 27. This documentation shall include, as a minimum, the following:

(1) Test title: Gasoline Delivery Tank Pressure Test - EPA Reference Method 27

(2) Tank owner and address

(3) Tank identification number

(4) Testing location

(5) Date of test

(6) Tester name and signature

(7) Witnessing inspector, if any: Name, signature, and affiliation

(8) Test results: Actual pressure change in 5 minutes, mm of water (average for 2 runs).

(9) Records of repairs including the date of the repair, the type of repair, and the date of the retest.

(b) To document compliance with Condition D.1.5, records of each monthly leak inspection shall be maintained. At a minimum, the following information shall be recorded:

(1) Date of inspection

(2) Findings (may indicate no leaks discovered; or location, nature, and severity of each leak).

(3) Leak determination method

(4) Corrective action (date each leak repaired; reasons for any repair interval in excess of 15 days).

(5) Inspector name and signature.

(c) To document compliance with Condition D.1.2(f)(3), the tank identification number of each gasoline tank truck that is loaded at the facility shall be recorded.

(d) When the carbon adsorber is in operation, to document compliance with Condition D.1.6(a), the Permittee shall maintain a continuous record of the carbon bed pressure and records of all corrective actions implemented.

(e) When the vapor combustor is in operation, to document compliance with Condition D.1.6(b), the Permittee shall maintain records of the dates and times when the automated alarm was activated and all corrective actions implemented.

(f) Records of the types of volatile petroleum liquid loaded and the maximum true vapor pressure of the liquid as loaded shall be maintained for a minimum of 36 months and made available upon request by IDEM - OAQ or HDEM. Alternatively, the Permittee may keep records indicating which storage tank was the source of the volatile petroleum liquid loaded, provided the type and true vapor pressure of the liquid in the storage tank is also recorded.

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

~~D.1.8 Reporting Requirements~~

~~There are no reporting requirements for this facility.~~

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Storage Tanks

Eleven (11) petroleum liquid (gasoline, distillate, or neat ethanol) storage tanks, identified as tanks No. 217-14, 125-10, 80-15, 80-8, 80-7, 80-6, 80-2, 55-12, 55-3, T-13, and T-5. Tank specifications are as follows:

(a) Storage Tank No. 217-14 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 8,859,522 gallons.

(b) Storage Tank No. 125-10 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 5,141,052 gallons.

(c) Storage Tank No. 80-15 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 3,306,828 gallons.

(d) Storage Tank No. 80-8 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 3,426,024 gallons.

(e) Storage Tank No. 80-7 is an open floater tank equipped with a geodesic dome. The floating roof is equipped with a mechanical shoe seal and rim mounted wiper secondary seal. The tank has a maximum capacity of 3,413,802 gallons.

(f) Storage Tank No. 80-6 is an open floater tank equipped with a geodesic dome. The floating roof is equipped with a mechanical shoe type seal. The tank has a maximum capacity of 3,394,692 gallons.

(g) Storage Tank No. 80-2 is an open floater tank equipped with a geodesic dome. The floating roof is equipped with a mechanical shoe type seal ~~and a rim mounted wiper secondary seal~~. The tank has a maximum capacity of 3,390,240 gallons.

(h) Storage Tank No. 55-12 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 2,192,400 gallons.

(i) Storage Tank No. 55-3 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 2,321,634 gallons.

(j) Storage Tank No. T-13 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 201,600 gallons.

(k) Storage Tank No. T-5 has an internal floating roof with a mechanical shoe type seal and has a maximum capacity of 76,944 gallons.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to tanks 217-14, 125-10, 80-15, 80-8, 80-6, 80-2, 55-3, T-13, and T-5 except when otherwise specified in 40 CFR 60, Subparts K or Kb.

D.2.2 Storage Vessels [326 IAC 12] [40 CFR 60, Subpart K] **[40 CFR 60, Subpart Kb]** [326 IAC 8-9-4(a)]

Pursuant to 326 IAC 8-9-4(b) and 40 CFR 60, Subpart K **or 40 CFR 60 Subpart Kb**, tanks 217-14, 125-10, 80-15, 80-8, 80-7, 80-6, 80-2, 55-12, T-13, and T-5 shall not store a volatile organic liquid (VOL) with a vapor pressure greater than or equal to eleven and one-tenth (11.1) psia as stored.

D.2.3 Storage Vessels [326 IAC 12] [40 CFR 60, Subpart Kb] [326 IAC 8-9-4(c)] [326 IAC 8-4-3(b)]

Pursuant to 40 CFR 60.112b(a) or 326 IAC 8-9-4(c), tanks 217-14, 125-10, 80-15, 80-8, 80-7, 80-6, 80-2, 55-12, 55-3, T-13, and T-5, shall be equipped with a fixed roof in combination with an internal floating roof meeting the following:

(a) 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 tank is completely 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.

(b) Each internal floating roof shall be equipped with a mechanical shoe seal. A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.

(c) The facility is maintained such that there are no visible holes, tears, or other openings in the seal or any seal fabric or materials.

(d) Each opening in a noncontact 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.

(e) 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.

(f) 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.

(g) 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.

(h) 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.

(i) 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.

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

D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities.

~~**Compliance Determination Requirements**~~

~~D.2.5 Testing Requirements [326 IAC 2-7-6(1)]~~

~~Testing of this facility is not specifically required by this permit. However, this does not preclude testing requirements on this facility under 326 IAC 2-1-4(f) and 326 IAC 2-7-6(1).~~

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.~~6~~**5** Monitoring [326 IAC 12] [40 CFR 60, Subpart Kb] [326 IAC 8-9-5(b)]

Pursuant to 40 CFR 60.113b(a) or 326 IAC 8-9-5(b), the owner or operator of tanks 217-14, 125-10, 80-15, 80-8, 80-7, 80-6, 80-2, 55-12, 55-3, T-13, and T-5 shall:

(a) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to the filling of the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the Permittee shall repair the items before filling the storage vessel.

(b) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the Permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected 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 IDEM, OAQ and HDEM in the inspection report required in 40 CFR 60.115b(a)(3). Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions that the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

(c) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the Permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years.

(d) Notify IDEM, OAQ and HDEM in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by paragraph (a) and (c) of this section to afford HDEM the opportunity to have an observer present. If the inspection required by (c) of this section is not planned and the Permittee could not have known about the inspection 30 days in advance of refilling the tank, the Permittee shall notify IDEM, OAQ and HDEM 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 IDEM, OAQ and HDEM at least 7 days prior to refilling.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.~~7~~**6** Record Keeping Requirements

(a) In accordance with 326 IAC 8-9-6(b) the owner or operator of tanks 217-14, 125-10, 80-15, 80-8, 80-7, ~~80-6, 80-2,~~ 55-12, T-13, and T-5, shall maintain records of each vessel including the vessel identification number, dimensions, capacity, and a description of the emission control equipment shall be maintained for the life of the vessel.

(b) In accordance with 326 IAC 8-9-6(c) or 40 CFR 60.115b(a), a record of each inspection performed as required under Condition D.2.6 shall be maintained and shall identify the following:

(1) The vessel identification number

(2) The date of the inspection

(3) The observed condition of the seal, internal floating roof, and fittings.

(c) Pursuant to 40 CFR 60.113(a) **or** 40 CFR 60.116b, and 326 IAC 8-4-3(d), the Permittee shall maintain a record of the petroleum liquid or VOL stored in tanks 217-14, 125-10, 80-15, 80-8, 80-7, 80-6, 80-2, 55-12, 55-3, T-13, and T-5, the period of storage, the maximum true vapor pressure of that liquid as stored, and the results of the inspections performed on the storage vessels.

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

D.2.~~8~~**7** Reporting Requirements

A report of any defects (the internal floating roof is not resting on the surface of the VOL, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric) discovered during the annual inspection required in D.2.6 shall be furnished to the IDEM, OAQ and HDEM within thirty (30) days of the inspection. The report shall identify the vessel identification number, the nature of the defects, and the date the vessel was emptied or the nature of and date the repair was made.

SECTION D.3 FACILITY OPERATION CONDITIONS - INSIGNIFICANT ACTIVITIES

Facility Description [326 IAC 2-7-5(15)]: Storage Tanks

Eleven (11) liquid storage tanks, identified as tanks No. 80-11, 80-1, 80-9, 80-4, AA-1-3, AA-8-1, AA-8-2, AA-1-4, WA-12-1, WA-12-2, and AA-8-3. Tank specifications are as follows:

(a) Storage Tank No. 80-11 is a fixed cone roof tank storing distillate with a maximum design capacity of 3,424,974 gallons.

(b) Storage Tank No. 80-1 is a fixed cone roof tank storing distillate with a maximum design capacity of 3,418,128 gallons.

(c) Storage Tank No. 80-9 is a fixed cone roof tank storing distillate with a maximum design capacity of 3,414,222 gallons.

(d) Storage Tank No. 80-4 is a fixed cone roof tank storing distillate with a maximum design capacity of 3,402,714 gallons.

(e) Storage Tank No. AA-1-3 is a ~~fixed cone roof~~ **tote style** tank storing distillate dye additive with a maximum design capacity of ~~462~~ **550** gallons.

(f) Storage Tank No. AA-8-1 is a fixed roof tank storing gasoline or distillate additive with a maximum design capacity of 7,434 gallons.

(g) Storage Tank No. AA-8-2 is a fixed roof tank storing gasoline or distillate additive with a maximum design capacity of 7,686 gallons.

(h) Storage Tank No. AA-1-4 is a horizontal fixed roof tank storing gasoline**, distillate,** or distillate additive with a maximum design capacity of 462 gallons.

(i) Storage Tank No. WA-12-1 is a horizontal fixed roof tank storing petroleum contact water with a maximum design capacity of 12,222 gallons.

(j) Storage Tank No. WA-12-2 is a horizontal fixed roof tank storing petroleum contact water with a maximum design capacity of 12,222 gallons.

(k) Storage Tank No. AA-8-3 is a horizontal fixed roof tank storing gasoline or distillate additive with a maximum design capacity of 8,000 gallons.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

~~**Emission Limitations and Standards [326 IAC 2-7-5(1)]**~~

~~D.3.1 There are no emission limitations applicable to these facilities.~~

~~**Compliance Determination Requirements**~~

~~D.3.2 Testing Requirements [326 IAC 2-7-6(1)]~~

~~Testing of this facility is not specifically required by this permit. However, this does not preclude testing requirements on this facility under 326 IAC 2-1-4(f) and 326 IAC 2-7-6(1).~~

~~**Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**~~

~~D.3.3 There are no specific compliance monitoring requirements applicable to these facilities.~~

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.4**1** Record Keeping Requirements

(a) In accordance with 326 IAC 8-9-6(b) the owner or operator of tanks AA-8-1, AA-8-2, AA-1-4, and AA-8-3 shall maintain records of each vessel including the vessel identification number, dimensions, capacity, and a description of the emission control equipment shall be maintained for the life of the vessel.

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

D.3.~~5~~**2** Reporting Requirements

In accordance with 326 IAC 8-9-6(h), the owner or operator of tanks 80-11, 80-1, 80-9, 80-4, and AA-1-3 shall maintain a record and notify the IDEM, OAQ and HDEM within thirty (30) days when the maximum true vapor pressure of the liquid exceeds seventy-five hundredths (0.75) psia.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
and
HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Marathon Petroleum Company LLC
Source Address: 4206 Columbia Avenue, Hammond, Indiana 46327
Mailing Address: 539 South Main Street, Findlay, OH 45840
Part 70 Permit No.: T089-15416-00231

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

_ Annual Compliance Certification Letter

_ Emergency/Deviation Occurrence Reporting Form

_ Test Result (specify)

_ Report (specify)

_ Notification (specify)

_ Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:
Printed Name:
Title/Position:
Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-~~5674~~0178
Fax: 317-233-~~5967~~6865

and

HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
5925 Calumet Avenue
Hammond, Indiana 46320
Phone: 219-853-6306
Fax: 219-853-6343

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name:	Marathon Petroleum Company LLC
Source Address:	4206 Columbia Avenue, Hammond, Indiana 46327
Mailing Address:	539 South Main Street, Findlay, OH 45840
Part 70 Permit No.:	T089-15416-00231

This form consists of 2 pages **Page 1 of 2**

_ This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ) and the Hammond Department of Environmental Management (HDEM), within four (**4**) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section) and (219-853-6306, for HDEM); and
- The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-5967, IDEM and 219-853-6343, HDEM), and follow the other requirements of 326 IAC 2-7- 16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by:
Title/Position:
Date:
Phone:

A certification is not required for this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
and
HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Marathon Petroleum Company LLC
Source Address: 4206 Columbia Avenue, Hammond, Indiana 46327
Mailing Address: 539 South Main Street, Findlay, OH 45840
Part 70 Permit No.: T089-15416-00231

Months: _____ **to** _____ **Year:** _____

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".	
_ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
_ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Page 2 of 2

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed by:
Title/Position:
Date:
Phone:

Attach a signed certification to complete this report.

Conclusion and Recommendation

This source shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 089-24260-00231 and Significant Permit Modification No. 089-24092-00231. The staff recommends to the Commissioner that this Part 70 Minor Source Modification and Significant Permit Modification be approved.

VOC Emission Calculations

Tank Number	Permitted VOC Emissions (lbs/yr)	VOC Emissions After Mod. (lbs/yr)	Change in VOC Emissions (lbs/day)	(lbs/yr)	(tons/yr)
AA-1-4	30.0	0.2	-0.08	-29.8	-0.01
80-2	936.5	5379.9	12.17	4443.5	2.22
80-6	942.2	5294.4	11.92	4352.2	2.18
Total	1908.7	10674.5	24.02	8765.9	4.38

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	AA-1-4p
City:	Hammond
State:	Indiana
Company:	Marathon Petroleum Company LLC
Type of Tank:	Horizontal Tank
Description:	

Tank Dimensions

Shell Length (ft):	6.00
Diameter (ft):	4.00
Volume (gallons):	420.00
Turnovers:	23.81
Net Throughput(gal/yr):	10,000.00
Is Tank Heated (y/n):	N
Is Tank Underground (y/n):	N

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good

Breather Vent Settings

Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	0.03

Meterological Data used in Emissions Calculations: Chicago, Illinois (Avg Atmospheric Pressure = 14.38 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

AA-1-4p - Horizontal Tank
Hammond, Indiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg.	Min.	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min.	Max.	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Gasoline Additives	All	50.66	45.76	55.55	49.02	1.0231	0.9101	1.1477	75.7000			188.00	

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

AA-1-4p - Horizontal Tank
Hammond, Indiana

Annual Emission Calcaulations

Standing Losses (lb):	11.5562
Vapor Space Volume (cu ft):	48.0243
Vapor Density (lb/cu ft):	0.0141
Vapor Space Expansion Factor:	0.0517
Vented Vapor Saturation Factor:	0.9022
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	48.0243
Tank Diameter (ft):	4.0000
Effective Diameter (ft):	5.5293
Vapor Space Outage (ft):	2.0000
Tank Shell Length (ft):	6.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0141
Vapor Molecular Weight (lb/lb-mole):	75.7000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	1.0231
Daily Avg. Liquid Surface Temp. (deg. R):	510.3272
Daily Average Ambient Temp. (deg. F):	49.0000
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	508.6900
Tank Paint Solar Absorptance (Shell):	0.1700
Daily Total Solar Insulation Factor (Btu/sqft day):	1,225.5876
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0517
Daily Vapor Temperature Range (deg. R):	19.5858
Daily Vapor Pressure Range (psia):	0.2376
Breather Vent Press. Setting Range(psia):	0.0600
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	1.0231
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.9101
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	1.1477
Daily Avg. Liquid Surface Temp. (deg R):	510.3272
Daily Min. Liquid Surface Temp. (deg R):	505.4307
Daily Max. Liquid Surface Temp. (deg R):	515.2236
Daily Ambient Temp. Range (deg. R):	19.1000
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9022
Vapor Pressure at Daily Average Liquid: Surface Temperature (psia):	1.0231
Vapor Space Outage (ft):	2.0000
Working Losses (lb):	18.4402
Vapor Molecular Weight (lb/lb-mole):	75.7000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	1.0231
Annual Net Throughput (gal/yr.):	10,000.0000

Annual Turnovers:	23.8100
Turnover Factor:	1.0000
Tank Diameter (ft):	4.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	29.9963

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

AA-1-4p - Horizontal Tank
Hammond, Indiana

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Gasoline Additives	18.44	11.56	30.00

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	AA-1-4m
City:	Hammond
State:	Indiana
Company:	Marathon Petroleum Company LLC
Type of Tank:	Horizontal Tank
Description:	

Tank Dimensions

Shell Length (ft):		6.00
Diameter (ft):		4.00
Volume (gallons):		420.00
Turnovers:		23.81
Net Throughput(gal/yr):		10,000.00
Is Tank Heated (y/n):	N	
Is Tank Underground (y/n):	N	

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good

Breather Vent Settings

Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	0.03

Meterological Data used in Emissions Calculations: Chicago, Illinois (Avg Atmospheric Pressure = 14.38 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

AA-1-4m - Horizontal Tank
Hammond, Indiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg.	Min.	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min.	Max.	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Distillate fuel oil no. 2	All	50.66	45.76	55.55	49.02	0.0046	0.0039	0.0056	130.0000			188.00	Option 1: VP50 = .0045 VP60 = .0065

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

AA-1-4m - Horizontal Tank
Hammond, Indiana

Annual Emission Calcaulations

Standing Losses (lb):	0.0661
Vapor Space Volume (cu ft):	48.0243
Vapor Density (lb/cu ft):	0.0001
Vapor Space Expansion Factor:	0.0343
Vented Vapor Saturation Factor:	0.9995
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	48.0243
Tank Diameter (ft):	4.0000
Effective Diameter (ft):	5.5293
Vapor Space Outage (ft):	2.0000
Tank Shell Length (ft):	6.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0001
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0046
Daily Avg. Liquid Surface Temp. (deg. R):	510.3272
Daily Average Ambient Temp. (deg. F):	49.0000
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	508.6900
Tank Paint Solar Absorptance (Shell):	0.1700
Daily Total Solar Insulation Factor (Btu/sqft day):	1,225.5876
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0343
Daily Vapor Temperature Range (deg. R):	19.5858
Daily Vapor Pressure Range (psia):	0.0017
Breather Vent Press. Setting Range(psia):	0.0600
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0046
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0039
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0056
Daily Avg. Liquid Surface Temp. (deg R):	510.3272
Daily Min. Liquid Surface Temp. (deg R):	505.4307
Daily Max. Liquid Surface Temp. (deg R):	515.2236
Daily Ambient Temp. Range (deg. R):	19.1000
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9995
Vapor Pressure at Daily Average Liquid: Surface Temperature (psia):	0.0046
Vapor Space Outage (ft):	2.0000
Working Losses (lb):	0.1434
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0046
Annual Net Throughput (gal/yr.):	10,000.0000

Annual Turnovers:	23.8100
Turnover Factor:	1.0000
Tank Diameter (ft):	4.0000
Working Loss Product Factor:	1.0000

Total Losses (lb):	0.2095

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

AA-1-4m - Horizontal Tank
Hammond, Indiana

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.14	0.07	0.21

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	80-2p
City:	Hammond
State:	Indiana
Company:	Marathon Petroleum Company LLC
Type of Tank:	Domed External Floating Roof Tank
Description:	Double Seal

Tank Dimensions

Diameter (ft):	110.00
Volume (gallons):	3,064,824.00
Turnovers:	24.90

Paint Characteristics

Internal Shell Condition:	Light Rust
Shell Color/Shade:	White/White
Shell Condition	Good

Roof Characteristics

Type:	Double Deck
Fitting Category	Detail

Tank Construction and Rim-Seal System

Construction:	Welded
Primary Seal:	Mechanical Shoe
Secondary Seal	Rim-mounted

Deck Fitting/Status	Quantity
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed	1
Automatic Gauge Float Well/Unbolted Cover, Gasketed	1
Gauge-Hatch/Sample Well (8-in. Diam.)/Weighted Mech. Actuation, Gask.	1
Roof Drain (3-in. Diameter)/90% Closed	1
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	1
Roof Leg (3-in. Diameter)/Adjustable, Double-Deck Roofs	24

Meterological Data used in Emissions Calculations: Chicago, Illinois (Avg Atmospheric Pressure = 14.38 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

80-2p - Domed External Floating Roof Tank
Hammond, Indiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg.	Min.	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min.	Max.	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Gasoline (RVP 15.0)	Jan	37.44	33.86	41.02	49.02	5.2943	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 15.0)	Feb	39.72	35.80	43.63	49.02	5.5392	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 15.0)	Mar	45.28	40.85	49.70	49.02	6.1768	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 13.5)	Apr	50.79	45.46	56.12	49.02	6.0877	N/A	N/A	62.0000			92.00	Option 4: RVP=13.5, ASTM Slope=3
Gasoline (RVP 9)	May	55.79	49.61	61.97	49.02	4.2415	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 9)	Jun	60.28	53.94	66.63	49.02	4.6369	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 9)	Jul	62.24	56.14	68.35	49.02	4.8181	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 9)	Aug	61.28	55.62	66.94	49.02	4.7286	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 13.5)	Sep	57.55	52.21	62.90	49.02	6.9223	N/A	N/A	62.0000			92.00	Option 4: RVP=13.5, ASTM Slope=3
Gasoline (RVP 13.5)	Oct	51.94	47.01	56.86	49.02	6.2230	N/A	N/A	62.0000			92.00	Option 4: RVP=13.5, ASTM Slope=3
Gasoline (RVP 15.0)	Nov	45.82	42.12	49.53	49.02	6.2423	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 15.0)	Dec	39.75	36.52	42.98	49.02	5.5434	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

80-2p - Domed External Floating Roof Tank
Hammond, Indiana

Month:	January	February	March	April	May	June	July	August	September	October	November	December
Rim Seal Losses (lb):	37.7000	39.9226	45.9896	46.6201	32.1056	35.7379	37.4495	36.5998	55.4559	47.9945	46.6384	39.9605
Seal Factor A (lb-mole/ft-yr):	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000
Seal Factor B (lb-mole/ft-yr (mph)^n):	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000
Average Wind Speed (mph):	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Seal-related Wind Speed Exponent:	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Value of Vapor Pressure Function:	0.1142	0.1210	0.1394	0.1367	0.0871	0.0970	0.1016	0.0993	0.1626	0.1407	0.1413	0.1211
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	5.2943	5.5392	6.1768	6.0877	4.2415	4.6369	4.8181	4.7286	6.9223	6.2230	6.2423	5.5434
Tank Diameter (ft):	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000
Vapor Molecular Weight (lb/lb-mole):	60.0000	60.0000	60.0000	62.0000	67.0000	67.0000	67.0000	67.0000	62.0000	62.0000	60.0000	60.0000
Product Factor:	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Withdrawal Losses (lb):	18.0131	13.5320	13.1638	8.4610	7.3654	11.0795	10.6381	8.9877	11.6487	8.6899	9.7187	9.7749
Net Throughput (gal/mo.):	10,506,032.0000	7,892,491.0000	7,677,711.0000	4,934,819.0000	4,295,816.0000	6,462,063.0000	6,204,619.0000	5,242,003.0000	6,794,062.0000	5,068,333.0000	5,668,379.0000	5,701,163.0000
Shell Clingage Factor (bbl/1000 sqft):	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
Average Organic Liquid Density (lb/gal):	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000
Tank Diameter (ft):	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000
Roof Fitting Losses (lb):	22.7628	24.1048	27.7680	28.1486	19.3850	21.5781	22.6116	22.0985	33.4836	28.9785	28.1597	24.1276
Value of Vapor Pressure Function:	0.1142	0.1210	0.1394	0.1367	0.0871	0.0970	0.1016	0.0993	0.1626	0.1407	0.1413	0.1211
Vapor Molecular Weight (lb/lb-mole):	60.0000	60.0000	60.0000	62.0000	67.0000	67.0000	67.0000	67.0000	62.0000	62.0000	60.0000	60.0000
Product Factor:	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Tot. Roof Fitting Loss Fact.(lb-mole/yr):	39.8500	39.8500	39.8500	39.8500	39.8500	39.8500	39.8500	39.8500	39.8500	39.8500	39.8500	39.8500
Average Wind Speed (mph):	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total Losses (lb):	78.4758	77.5594	86.9214	83.2297	58.8559	68.3955	70.6992	67.6860	100.5882	85.6629	84.5167	73.8630

Roof Fitting/Status	Quantity	Roof Fitting Loss Factors KFa(lb-mole/yr)	KFb(lb-mole/(yr mph^n))	m	Losses(lb)
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed	1	1.60	0.00	0.00	12.1649
Automatic Gauge Float Well/Unbolted Cover, Gasketed	1	4.30	17.00	0.38	32.6932
Gauge-Hatch/Sample Well (8-in. Diam.)/Weighted Mech. Actuation, Gask.	1	0.47	0.02	0.97	3.5734
Roof Drain (3-in. Diameter)/90% Closed	1	1.80	0.14	1.10	13.6855
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	1	12.00	0.00	0.00	91.2370
Roof Leg (3-in. Diameter)/Adjustable, Double-Deck Roofs	24	0.82	0.53	0.14	149.6286

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

80-2p - Domed External Floating Roof Tank
Hammond, Indiana

	Losses(lbs)				
Components	Rim Seal Loss	Withdrawl Loss	Deck Fitting Loss	Deck Seam Loss	Total Emissions
Gasoline (RVP 15.0)	210.21	64.20	126.92	0.00	401.34
Gasoline (RVP 13.5)	150.07	28.80	90.61	0.00	269.48
Gasoline (RVP 9)	141.89	38.07	85.67	0.00	265.64

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	80-2m
City:	Hammond
State:	Indiana
Company:	Marathon Petroleum Company LLC
Type of Tank:	Domed External Floating Roof Tank
Description:	Single Seal

Tank Dimensions

Diameter (ft):	110.00
Volume (gallons):	3,064,824.00
Turnovers:	24.90

Paint Characteristics

Internal Shell Condition:	Light Rust
Shell Color/Shade:	White/White
Shell Condition	Good

Roof Characteristics

Type:	Double Deck
Fitting Category	Detail

Tank Construction and Rim-Seal System

Construction:	Welded
Primary Seal:	Mechanical Shoe
Secondary Seal	None

Deck Fitting/Status	Quantity
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed	1
Automatic Gauge Float Well/Unbolted Cover, Gasketed	1
Gauge-Hatch/Sample Well (8-in. Diam.)/Weighted Mech. Actuation, Gask.	1
Roof Drain (3-in. Diameter)/90% Closed	1
Roof Leg (3-in. Diameter)/Adjustable, Double-Deck Roofs	24
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	2

Meterological Data used in Emissions Calculations: Chicago, Illinois (Avg Atmospheric Pressure = 14.38 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

80-2m - Domed External Floating Roof Tank
Hammond, Indiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg.	Min.	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min.	Max.	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Gasoline (RVP 15.0)	Jan	37.44	33.86	41.02	49.02	5.2943	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 15.0)	Feb	39.72	35.80	43.63	49.02	5.5392	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 15.0)	Mar	45.28	40.85	49.70	49.02	6.1768	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 13.5)	Apr	50.79	45.46	56.12	49.02	6.0877	N/A	N/A	62.0000			92.00	Option 4: RVP=13.5, ASTM Slope=3
Gasoline (RVP 9)	May	55.79	49.61	61.97	49.02	4.2415	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 9)	Jun	60.28	53.94	66.63	49.02	4.6369	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 9)	Jul	62.24	56.14	68.35	49.02	4.8181	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 9)	Aug	61.28	55.62	66.94	49.02	4.7286	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 13.5)	Sep	57.55	52.21	62.90	49.02	6.9223	N/A	N/A	62.0000			92.00	Option 4: RVP=13.5, ASTM Slope=3
Gasoline (RVP 13.5)	Oct	51.94	47.01	56.86	49.02	6.2230	N/A	N/A	62.0000			92.00	Option 4: RVP=13.5, ASTM Slope=3
Gasoline (RVP 15.0)	Nov	45.82	42.12	49.53	49.02	6.2423	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 15.0)	Dec	39.75	36.52	42.98	49.02	5.5434	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

80-2m - Domed External Floating Roof Tank
Hammond, Indiana

Month:	January	February	March	April	May	June	July	August	September	October	November	December
Rim Seal Losses (lb):	364.4330	385.9182	444.5665	450.6607	310.3540	345.4665	362.0123	353.7982	536.0733	463.9470	450.8374	386.2844
Seal Factor A (lb-mole/ft-yr):	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000
Seal Factor B (lb-mole/ft-yr (mph)^n):	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000
Average Wind Speed (mph):	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Seal-related Wind Speed Exponent:	2.1000	2.1000	2.1000	2.1000	2.1000	2.1000	2.1000	2.1000	2.1000	2.1000	2.1000	2.1000
Value of Vapor Pressure Function:	0.1142	0.1210	0.1394	0.1367	0.0871	0.0970	0.1016	0.0993	0.1626	0.1407	0.1413	0.1211
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	5.2943	5.5392	6.1768	6.0877	4.2415	4.6369	4.8181	4.7286	6.9223	6.2230	6.2423	5.5434
Tank Diameter (ft):	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000
Vapor Molecular Weight (lb/lb-mole):	60.0000	60.0000	60.0000	62.0000	67.0000	67.0000	67.0000	67.0000	62.0000	62.0000	60.0000	60.0000
Product Factor:	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Withdrawal Losses (lb):	18.0131	13.5320	13.1638	8.4610	7.3654	11.0795	10.6381	8.9877	11.6487	8.6899	9.7187	9.7749
Net Throughput (gal/mo.):	10,506,032.0000	7,892,491.0000	7,677,711.0000	4,934,819.0000	4,295,816.0000	6,462,063.0000	6,204,619.0000	5,242,003.0000	6,794,062.0000	5,068,333.0000	5,668,379.0000	5,701,163.0000
Shell Clingage Factor (bbl/1000 sqft):	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
Average Organic Liquid Density (lb/gal):	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000
Tank Diameter (ft):	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000
Roof Fitting Losses (lb):	29.6173	31.3634	36.1297	36.6250	25.2223	28.0759	29.4206	28.7530	43.5665	37.7048	36.6394	31.3932
Value of Vapor Pressure Function:	0.1142	0.1210	0.1394	0.1367	0.0871	0.0970	0.1016	0.0993	0.1626	0.1407	0.1413	0.1211
Vapor Molecular Weight (lb/lb-mole):	60.0000	60.0000	60.0000	62.0000	67.0000	67.0000	67.0000	67.0000	62.0000	62.0000	60.0000	60.0000
Product Factor:	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Tot. Roof Fitting Loss Fact.(lb-mole/yr):	51.8500	51.8500	51.8500	51.8500	51.8500	51.8500	51.8500	51.8500	51.8500	51.8500	51.8500	51.8500
Average Wind Speed (mph):	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total Losses (lb):	412.0633	430.8136	493.8600	495.7467	342.9417	384.6219	402.0710	391.5389	591.2885	510.3416	497.1955	427.4525

Roof Fitting/Status	Quantity	Roof Fitting Loss Factors KFa(lb-mole/yr)	KFb(lb-mole/(yr mph^n))	m	Losses(lb)
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed	1	1.60	0.00	0.00	12.1649
Automatic Gauge Float Well/Unbolted Cover, Gasketed	1	4.30	17.00	0.38	32.6932
Gauge-Hatch/Sample Well (8-in. Diam.)/Weighted Mech. Actuation, Gask.	1	0.47	0.02	0.97	3.5734
Roof Drain (3-in. Diameter)/90% Closed	1	1.80	0.14	1.10	13.6855
Roof Leg (3-in. Diameter)/Adjustable, Double-Deck Roofs	24	0.82	0.53	0.14	149.6286
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	2	12.00	0.00	0.00	182.4739

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

80-2m - Domed External Floating Roof Tank
Hammond, Indiana

	Losses(lbs)				
Components	Rim Seal Loss	Withdrawl Loss	Deck Fitting Loss	Deck Seam Loss	Total Emissions
Gasoline (RVP 15.0)	2,032.04	64.20	165.14	0.00	2,261.38
Gasoline (RVP 13.5)	1,450.68	28.80	117.90	0.00	1,597.38
Gasoline (RVP 9)	1,371.63	38.07	111.47	0.00	1,521.17

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	80-6p1
City:	Hammond
State:	Indiana
Company:	Marathon Petroleum Company LLC
Type of Tank:	Domed External Floating Roof Tank
Description:	Double Seal

Tank Dimensions

Diameter (ft):	110.00
Volume (gallons):	3,169,278.00
Turnovers:	7.72

Paint Characteristics

Internal Shell Condition:	Light Rust
Shell Color/Shade:	White/White
Shell Condition	Good

Roof Characteristics

Type:	Double Deck
Fitting Category	Detail

Tank Construction and Rim-Seal System

Construction:	Welded
Primary Seal:	Mechanical Shoe
Secondary Seal	Rim-mounted

Deck Fitting/Status	Quantity
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed	1
Automatic Gauge Float Well/Unbolted Cover, Gasketed	1
Gauge-Hatch/Sample Well (8-in. Diam.)/Weighted Mech. Actuation, Gask.	2
Roof Drain (3-in. Diameter)/90% Closed	1
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	2
Roof Leg (3-in. Diameter)/Adjustable, Double-Deck Roofs	24

Meterological Data used in Emissions Calculations: Chicago, Illinois (Avg Atmospheric Pressure = 14.38 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

80-6p1 - Domed External Floating Roof Tank
Hammond, Indiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg.	Min.	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min.	Max.	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Gasoline (RVP 15.0)	Jan	37.44	33.86	41.02	49.02	5.2943	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 15.0)	Feb	39.72	35.80	43.63	49.02	5.5392	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 15.0)	Mar	45.28	40.85	49.70	49.02	6.1768	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 13.5)	Apr	50.79	45.46	56.12	49.02	6.0877	N/A	N/A	62.0000			92.00	Option 4: RVP=13.5, ASTM Slope=3
Gasoline (RVP 9)	May	55.79	49.61	61.97	49.02	4.2415	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 9)	Jun	60.28	53.94	66.63	49.02	4.6369	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 9)	Jul	62.24	56.14	68.35	49.02	4.8181	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 9)	Aug	61.28	55.62	66.94	49.02	4.7286	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 13.5)	Sep	57.55	52.21	62.90	49.02	6.9223	N/A	N/A	62.0000			92.00	Option 4: RVP=13.5, ASTM Slope=3
Gasoline (RVP 13.5)	Oct	51.94	47.01	56.86	49.02	6.2230	N/A	N/A	62.0000			92.00	Option 4: RVP=13.5, ASTM Slope=3
Gasoline (RVP 15.0)	Nov	45.82	42.12	49.53	49.02	6.2423	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 15.0)	Dec	39.75	36.52	42.98	49.02	5.5434	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

80-6p1 - Domed External Floating Roof Tank
Hammond, Indiana

Month:	January	February	March	April	May	June	July	August	September	October	November	December
Rim Seal Losses (lb):	37.7000	39.9226	45.9896	46.6201	32.1056	35.7379	37.4495	36.5998	55.4559	47.9945	46.6384	39.9605
Seal Factor A (lb-mole/ft-yr):	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000
Seal Factor B (lb-mole/ft-yr (mph)^n):	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000
Average Wind Speed (mph):	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Seal-related Wind Speed Exponent:	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Value of Vapor Pressure Function:	0.1142	0.1210	0.1394	0.1367	0.0871	0.0970	0.1016	0.0993	0.1626	0.1407	0.1413	0.1211
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	5.2943	5.5392	6.1768	6.0877	4.2415	4.6369	4.8181	4.7286	6.9223	6.2230	6.2423	5.5434
Tank Diameter (ft):	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000
Vapor Molecular Weight (lb/lb-mole):	60.0000	60.0000	60.0000	62.0000	67.0000	67.0000	67.0000	67.0000	62.0000	62.0000	60.0000	60.0000
Product Factor:	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Withdrawal Losses (lb):	2.8178	8.1284	0.0044	0.4396	4.3148	0.0000	0.0000	0.0000	4.7471	8.5130	7.1240	5.8670
Net Throughput (gal/mo.):	1,643,482.0000	4,740,875.0000	2,566.0000	256,387.0000	2,516,574.0000	0.0000	0.0000	0.0000	2,768,705.0000	4,965,141.0000	4,155,064.0000	3,421,915.0000
Shell Clingage Factor (bbl/1000 sqft):	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
Average Organic Liquid Density (lb/gal):	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000
Tank Diameter (ft):	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000
Roof Fitting Losses (lb):	29.8858	31.6477	36.4572	36.9570	25.4510	28.3304	29.6873	29.0137	43.9614	38.0466	36.9715	31.6777
Value of Vapor Pressure Function:	0.1142	0.1210	0.1394	0.1367	0.0871	0.0970	0.1016	0.0993	0.1626	0.1407	0.1413	0.1211
Vapor Molecular Weight (lb/lb-mole):	60.0000	60.0000	60.0000	62.0000	67.0000	67.0000	67.0000	67.0000	62.0000	62.0000	60.0000	60.0000
Product Factor:	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Tot. Roof Fitting Loss Fact.(lb-mole/yr):	52.3200	52.3200	52.3200	52.3200	52.3200	52.3200	52.3200	52.3200	52.3200	52.3200	52.3200	52.3200
Average Wind Speed (mph):	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total Losses (lb):	70.4036	79.6987	82.4513	84.0167	61.8713	64.0683	67.1368	65.6135	104.1643	94.5540	90.7339	77.5052

Roof Fitting/Status	Quantity	Roof Fitting Loss Factors KFa(lb-mole/yr)	KFb(lb-mole/(yr mph^n))	m	Losses(lb)
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed	1	1.60	0.00	0.00	12.1649
Automatic Gauge Float Well/Unbolted Cover, Gasketed	1	4.30	17.00	0.38	32.6932
Gauge-Hatch/Sample Well (8-in. Diam.)/Weighted Mech. Actuation, Gask.	2	0.47	0.02	0.97	7.1469
Roof Drain (3-in. Diameter)/90% Closed	1	1.80	0.14	1.10	13.6855
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	2	12.00	0.00	0.00	182.4739
Roof Leg (3-in. Diameter)/Adjustable, Double-Deck Roofs	24	0.82	0.53	0.14	149.6286

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

80-6p1 - Domed External Floating Roof Tank
Hammond, Indiana

	Losses(lbs)				
Components	Rim Seal Loss	Withdrawl Loss	Deck Fitting Loss	Deck Seam Loss	Total Emissions
Gasoline (RVP 15.0)	210.21	23.94	166.64	0.00	400.79
Gasoline (RVP 13.5)	150.07	13.70	118.96	0.00	282.73
Gasoline (RVP 9)	141.89	4.31	112.48	0.00	258.69

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	80-6m
City:	Hammond
State:	Indiana
Company:	Marathon Petroleum Company LLC
Type of Tank:	Domed External Floating Roof Tank
Description:	Double Seal

Tank Dimensions

Diameter (ft):	110.00
Volume (gallons):	3,169,278.00
Turnovers:	7.72

Paint Characteristics

Internal Shell Condition:	Light Rust
Shell Color/Shade:	White/White
Shell Condition	Good

Roof Characteristics

Type:	Double Deck
Fitting Category	Detail

Tank Construction and Rim-Seal System

Construction:	Welded
Primary Seal:	Mechanical Shoe
Secondary Seal	None

Deck Fitting/Status	Quantity
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed	1
Automatic Gauge Float Well/Unbolted Cover, Gasketed	1
Gauge-Hatch/Sample Well (8-in. Diam.)/Weighted Mech. Actuation, Gask.	2
Roof Drain (3-in. Diameter)/90% Closed	1
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	2
Roof Leg (3-in. Diameter)/Adjustable, Double-Deck Roofs	24

Meterological Data used in Emissions Calculations: Chicago, Illinois (Avg Atmospheric Pressure = 14.38 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

80-6m - Domed External Floating Roof Tank
Hammond, Indiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg.	Min.	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min.	Max.	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Gasoline (RVP 15.0)	Jan	37.44	33.86	41.02	49.02	5.2943	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 15.0)	Feb	39.72	35.80	43.63	49.02	5.5392	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 15.0)	Mar	45.28	40.85	49.70	49.02	6.1768	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 13.5)	Apr	50.79	45.46	56.12	49.02	6.0877	N/A	N/A	62.0000			92.00	Option 4: RVP=13.5, ASTM Slope=3
Gasoline (RVP 9)	May	55.79	49.61	61.97	49.02	4.2415	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 9)	Jun	60.28	53.94	66.63	49.02	4.6369	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 9)	Jul	62.24	56.14	68.35	49.02	4.8181	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 9)	Aug	61.28	55.62	66.94	49.02	4.7286	N/A	N/A	67.0000			92.00	Option 4: RVP=9, ASTM Slope=3
Gasoline (RVP 13.5)	Sep	57.55	52.21	62.90	49.02	6.9223	N/A	N/A	62.0000			92.00	Option 4: RVP=13.5, ASTM Slope=3
Gasoline (RVP 13.5)	Oct	51.94	47.01	56.86	49.02	6.2230	N/A	N/A	62.0000			92.00	Option 4: RVP=13.5, ASTM Slope=3
Gasoline (RVP 15.0)	Nov	45.82	42.12	49.53	49.02	6.2423	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3
Gasoline (RVP 15.0)	Dec	39.75	36.52	42.98	49.02	5.5434	N/A	N/A	60.0000			92.00	Option 4: RVP=15, ASTM Slope=3

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

80-6m - Domed External Floating Roof Tank
Hammond, Indiana

Month:	January	February	March	April	May	June	July	August	September	October	November	December
Rim Seal Losses (lb):	364.4330	385.9182	444.5665	450.6607	310.3540	345.4665	362.0123	353.7982	536.0733	463.9470	450.8374	386.2844
Seal Factor A (lb-mole/ft-yr):	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000
Seal Factor B (lb-mole/ft-yr (mph)^n):	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000
Average Wind Speed (mph):	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Seal-related Wind Speed Exponent:	2.1000	2.1000	2.1000	2.1000	2.1000	2.1000	2.1000	2.1000	2.1000	2.1000	2.1000	2.1000
Value of Vapor Pressure Function:	0.1142	0.1210	0.1394	0.1367	0.0871	0.0970	0.1016	0.0993	0.1626	0.1407	0.1413	0.1211
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	5.2943	5.5392	6.1768	6.0877	4.2415	4.6369	4.8181	4.7286	6.9223	6.2230	6.2423	5.5434
Tank Diameter (ft):	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000
Vapor Molecular Weight (lb/lb-mole):	60.0000	60.0000	60.0000	62.0000	67.0000	67.0000	67.0000	67.0000	62.0000	62.0000	60.0000	60.0000
Product Factor:	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Withdrawal Losses (lb):	2.8178	8.1284	0.0044	0.4396	4.3148	0.0000	0.0000	0.0000	4.7471	8.5130	7.1240	5.8670
Net Throughput (gal/mo.):	1,643,482.0000	4,740,875.0000	2,566.0000	256,387.0000	2,516,574.0000	0.0000	0.0000	0.0000	2,768,705.0000	4,965,141.0000	4,155,064.0000	3,421,915.0000
Shell Clingage Factor (bbl/1000 sqft):	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
Average Organic Liquid Density (lb/gal):	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000	5.6000
Tank Diameter (ft):	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000	110.0000
Roof Fitting Losses (lb):	29.8858	31.6477	36.4572	36.9570	25.4510	28.3304	29.6873	29.0137	43.9614	38.0466	36.9715	31.6777
Value of Vapor Pressure Function:	0.1142	0.1210	0.1394	0.1367	0.0871	0.0970	0.1016	0.0993	0.1626	0.1407	0.1413	0.1211
Vapor Molecular Weight (lb/lb-mole):	60.0000	60.0000	60.0000	62.0000	67.0000	67.0000	67.0000	67.0000	62.0000	62.0000	60.0000	60.0000
Product Factor:	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Tot. Roof Fitting Loss Fact.(lb-mole/yr):	52.3200	52.3200	52.3200	52.3200	52.3200	52.3200	52.3200	52.3200	52.3200	52.3200	52.3200	52.3200
Average Wind Speed (mph):	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total Losses (lb):	397.1366	425.6943	481.0281	488.0573	340.1198	373.7969	391.6996	382.8119	584.7818	510.5065	494.9330	423.8292

Roof Fitting/Status	Quantity	Roof Fitting Loss Factors KFa(lb-mole/yr)	KFb(lb-mole/(yr mph^n))	m	Losses(lb)
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed	1	1.60	0.00	0.00	12.1649
Automatic Gauge Float Well/Unbolted Cover, Gasketed	1	4.30	17.00	0.38	32.6932
Gauge-Hatch/Sample Well (8-in. Diam.)/Weighted Mech. Actuation, Gask.	2	0.47	0.02	0.97	7.1469
Roof Drain (3-in. Diameter)/90% Closed	1	1.80	0.14	1.10	13.6855
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	2	12.00	0.00	0.00	182.4739
Roof Leg (3-in. Diameter)/Adjustable, Double-Deck Roofs	24	0.82	0.53	0.14	149.6286

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

80-6m - Domed External Floating Roof Tank
Hammond, Indiana

	Losses(lbs)				
Components	Rim Seal Loss	Withdrawl Loss	Deck Fitting Loss	Deck Seam Loss	Total Emissions
Gasoline (RVP 15.0)	2,032.04	23.94	166.64	0.00	2,222.62
Gasoline (RVP 13.5)	1,450.68	13.70	118.96	0.00	1,583.35
Gasoline (RVP 9)	1,371.63	4.31	112.48	0.00	1,488.43