# MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION

October 16, 2017

PERMIT TO INSTALL 347-96B

**ISSUED TO**Buckeye Terminals, LLC – Ferrysburg Terminal

LOCATED AT 17806 North Shore Drive Ferrysburg, Michigan

IN THE COUNTY OF Ottawa

# STATE REGISTRATION NUMBER B7778

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203:  August 8, 2017			
DATE PERMIT TO INSTALL APPROVED: October 16, 2017	SIGNATURE:		
DATE PERMIT VOIDED:	SIGNATURE:		
DATE PERMIT REVOKED:	SIGNATURE:		

# **PERMIT TO INSTALL**

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## **Common Abbreviations / Acronyms**

ACD AIR Quality Division BACT Best Available Control Technology CAA Clean Air Act CAM Compliance Assurance Monitoring CEM Continuous Emission Monitoring CEM Continuous Emission Monitoring CEM Continuous Opacity Monitoring CPR Code of Federal Regulations COM Continuous Opacity Monitoring Department/ department department EU Emission Unit EU Emission Unit EU Emission Unit EU Emission Opacity Monitoring GACS Gallons of Applied Coating Solids GC General Condition GRG General Condition GRG General Condition Initial Risk Screening Level ID Identification IRSL Initial Risk Screening Level ITSL Initial Risk Screening Level ITSL Initial Risk Screening Level MACT Maximum Achievable Emission Rate MACT Maximum Achievable Control Technology MAERS Michigan Air Emissions Reporting System MAP Malfunction Abatement Plan MDEQ Michigan Department of Environmental Quality NAAQS National Ambient Air Quality Standards NSS Naw Source Performance Standards NSS Naw Source Performance Standards NSSN New Source Performance Standards NSSN New Source Review PS Performance Specification PSD Prevention of Significant Deterioration PSD Special Condition SCR Selective Catalytic Reduction SRN State Registration Number TEQ United States Environmental Protection Agency  THO Total Hydrocarbons The Total Hydrocarbons The Mater Shrive Maximum Achievable Control Technology RND State Registration Number THC Total Hydrocarbons The Total Hydrocarbons The Total Hydrocarbons The Mercury The Mercury The Hour Prosperse Sahrenheit The Total Hydrocarbons The Degrees Caltivate The Carbon Hydrocarbons The Maximum Achievable Control Technology The Maximum Achievable Control Technology The Maximum Achievable Control Technology The Mercury The Mercury The Mourum Millimeter MM Milli	Common Acronyms			Pollutant / Measurement Abbreviations
BACT Gean Air Act Clean Air Act Compliance Assurance Monitoring CDM Continuous Emission Monitoring CCM Continuous Emission Monitoring CCM Continuous Emission Monitoring CCM Continuous Department of Continuous Opacity Monitoring Michigan Department of Environmental Quality General Regulations GCM Continuous Opacity Monitoring Michigan Department of Environmental Quality GCM GCM General Condition GCM General Condition GCM GCM Gallons of Applied Coating Solids GCM General Condition GCM General Condition GCM General Condition GCM GCM General Condition GCM General Condition GCM General Condition GCM GCM General Condition GCM GCM General Condition GCM GENERAL GOAL GOAL GOAL GOAL GOAL GOAL GOAL GO	AQD		acfm	Actual cubic feet per minute
CAM Compliance Assurance Monitoring CEM Continuous Emission Monitoring CFR Code of Federal Regulations COM Continuous Opacity Monitoring Department/ department/ EU Emission Unit EU Emission Unit EGC Gallons of Applied Coating Solids GCC General Condition GCC GCC General Regulation Control Technology GCC GCCC GCCC GCCC GCCC GCCC GCCC GCCC	BACT	Best Available Control Technology	BTU	•
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VE VISIDIE EMISSIONS I VOU VOIAME UMANIC COMBOUNDS	VE	Visible Emissions	μm VOC	Micrometer or Micron Volatile Organic Compounds
yr Year				

<sup>\*</sup>For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

#### **GENERAL CONDITIONS**

- 1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. (R 336.1201(1))
- 2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environmental Quality, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. (R 336.1201(4))
- 3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to R 336.1210, operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. (R 336.1201(6)(b))
- 4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. (R 336.1201(8), Section 5510 of Act 451, PA 1994)
- 5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to R 336.1219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of R 336.1219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. (R 336.1219)
- 6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. (R 336.1901)
- 7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). (R 336.1912)
- 8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
- 9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
- 10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

- 11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of R 336.1301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with R 336.1303. (R 336.1301)
  - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
  - b) A visible emission limit specified by an applicable federal new source performance standard.
  - c) A visible emission limit specified as a condition of this Permit to Install.
- 12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in R 336.1370(2). (R 336.1370)
- 13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. (R 336.2001)

## **SPECIAL CONDITIONS**

## **EMISSION UNIT SUMMARY TABLE**

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Process Equipment & Control Devices)	Flexible Group ID			
EULOADRACK	Loading rack to deliver fuel to trucks	FGLDRK&TANKS			
EUTANK1	A 31,609 bbl capacity gasoline/diesel storage tank equipped with an internal floating roof	FGTANKS, FGLDRK&TANKS			
EUTANK2	A 88,528 bbl capacity gasoline/diesel storage tank equipped with an internal floating roof	FGTANKS, FGLDRK&TANKS			
EUTANK3	A 94,826 bbl capacity gasoline/diesel/ethanol storage tank equipped with an internal floating roof	FGTANKS, FGLDRK&TANKS			
EUTANK4	A 65,483 bbl capacity diesel storage tank with a fixed roof	FGTANKS, FGLDRK&TANKS			
EUTANK5	A 17,606 bbl capacity gasoline/diesel/ethanol storage tank equipped with an internal floating roof	FGTANKS, FGLDRK&TANKS			
EUTANK9	A 190 bbl capacity gasoline additive storage tank with a fixed roof	FGTANKS, FGLDRK&TANKS			
EUTANK13	A 238 bbl capacity gasoline additive storage tank with a fixed roof	FGTANKS, FGLDRK&TANKS			
Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as					

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1290.

# The following conditions apply to: EULOADRACK

**DESCRIPTION:** Loading rack to deliver fuel to trucks

Flexible Group ID: NA

**POLLUTION CONTROL EQUIPMENT:** Vapor combustion unit, vapor recovery unit

## I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	45.2 tpy	12-month rolling time period as determined at the end of each calendar month	EULOADRACK	SC VI.1	R 336.702(a)
2. VOC	35 mg/L when using VCU	Continuously	EULOADRACK	SC VI.2	R 336.702(a)
3. VOC	10 mg/L when using VRU	Continuously	EULOADRACK	SC VI.2	R 336.702(a)
4. VOC	9.9 mg/L as fugitive emissions	Continuously	EULOADRACK	SC VI.2	R 336.702(a)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
5. VOC		12-month rolling time period as determined at the end of each calendar month		SC VI.2	R 336.702(a)

## II. MATERIAL LIMITS

 The permittee shall monitor and record EULOADRACK throughput. Total throughput through EULOADRACK shall not exceed 380 million gallons of worst case petroleum product (gasoline) per 12month rolling period determined at the end of each calendar month. Throughput through the loading rack while exhausting to the vapor combustion unit shall not exceed 280 million gallons of worst case petroleum product (gasoline) per 12-month rolling period determined at the end of each calendar month. (R 336.702(a))

## III. PROCESS/OPERATIONAL RESTRICTIONS

- 1. The permittee shall not operate EULOADRACK unless the vapor recovery unit or vapor combustion unit is installed and operating properly. (R 336.702(a))
- 2. The fugitive VOC emission from EULOADRACK, shall not exceed 9.9 milligrams per liter of product loaded nor 15.7 tons per 12-month rolling time period as determined at the end of each calendar month. (R 336.1702(a))
- 3. The permittee shall not operate EULOADRACK unless all provisions of Rule 706 are met. (R 336.1706)

## IV. <u>DESIGN/EQUIPMENT PARAMETERS</u>

NA

## V. <u>TESTING/SAMPLING</u>

Records shall be maintained on file for a period of five years. (R 336.1201(3))

1. Upon request from the AQD Detroit District Supervisor, the permittee shall provide verification of VOC emission rates from EULOADRACK, by testing at owner's expense, in accordance with Department requirements. No less than 30 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last test date of the test. (R 336.1702(a))

## VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- 1. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period, VOC emission calculation records for EULOADRACK, as required by SC I.1. (R 336.1205(3), R 336.1702(a))
- 2. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period, fuel throughput records for EULOADRACK, as required by SC II.1. These records shall include identification and quantity of petroleum product loaded through the rack, and indicate whether those emissions are controlled by the vapor combustion unit or vapor recovery unit. (R 336.1205(3), R 336.1702(a))

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3. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. The permittee shall keep all records on file at a location approved by the AQD district supervisor and make them available to the Department upon request. (R 336.1205(3))

## VII. REPORTING

NA

## VIII. STACK/VENT RESTRICTIONS

NA

## IX. OTHER REQUIREMENTS

NA

#### **FLEXIBLE GROUP SUMMARY TABLE**

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGTANKS	Group of fuel storage tanks at the facility	EUTANK1, EUTANK2, EUTANK3, EUTANK4, EUTANK5, EUTANK9, EUTANK13
FGLDRK&TANKS	Group of fuel loading rack and all storage tanks at the facility	EULOADRACK, EUTANK1, EUTANK2, EUTANK3, EUTANK4, EUTANK5, EUTANK9, EUTANK13

## The following conditions apply to: FGTANKS

**DESCRIPTION:** Group of fuel storage tanks at the facility.

Emission Units: EUTANK1, EUTANK2, EUTANK3, EUTANK4, EUTANK5, EUTANK9, EUTANK13

**POLLUTION CONTROL EQUIPMENT: NA** 

## I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	26.9 tpy	12-month rolling time period as determined at the end of each calendar month	FGTANKS	SC VI.1	R 336.1702(a)

## II. MATERIAL LIMITS

1. The permittee shall not allow throughput to FGTANKS to exceed 380,165,232 gallons of worst case petroleum product (gasoline) per 12-month rolling time period as determined at the end of each calendar month. (R 336.1205(3), R 336.1702(a))

## III. PROCESS/OPERATIONAL RESTRICTIONS

NA

## IV. DESIGN/EQUIPMENT PARAMETERS

NA

## V. TESTING/SAMPLING

NA

## VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

1. The permittee shall monitor and record FGTANKS product specific throughput. Monthly and 12-month rolling time period records of FGTANKS product specific throughput shall be kept on file for a period of at least five years and made available to the Air Quality Division upon request. (R 336.1205(3), R 336.1702(a))

## VII. REPORTING

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1205(3))

## VIII. STACK/VENT RESTRICTIONS

NA

#### IX. OTHER REQUIREMENTS

NA

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## The following conditions apply Source-Wide to: FGLDRK&TANKS

**DESCRIPTION:** Group of fuel loading rack and all storage tanks at the facility.

Emission Units: EULOADRACK, EUTANK1, EUTANK2, EUTANK3, EUTANK4, EUTANK5, EUTANK9,

EUTANK13

**POLLUTION CONTROL EQUIPMENT: NA** 

## I. <u>EMISSION LIMITS</u>

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Each Individual HAP	12-month rolling time period as determined at the end of each calendar month	6 tpy	FGLDRK&TANKS	SC VI.1	R 336.1205(3)
2. Aggregate HAPs	12-month rolling time period as determined at the end of each calendar month	8 tpy	FGLDRK&TANKS	SC VI.1	R 336.1205(3)

## II. MATERIAL LIMITS

NA

#### III. PROCESS/OPERATIONAL RESTRICTIONS

NA

## IV. DESIGN/EQUIPMENT PARAMETERS

NA

## V. TESTING/SAMPLING

NA

#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- 1. The permittee shall keep, in a satisfactory manner, records of monthly and 12-month rolling time period HAP emission rate calculations for FGLDRK&TANKS, as required by SC I.1 and SC I.2. The permittee shall keep all records on file for a period of at least five years and make them available to the Department upon request. (R 336.1205(3))
- 2. The permittee shall keep records to verify percent by weight of each HAP in each type of petroleum product handled at this facility for a period of at least five years. These records shall be made available to the AQD District Supervisor upon request. (R 336.1205(3))

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## VII. REPORTING

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1205(3))

## VIII. STACK/VENT RESTRICTIONS

NA

## IX. OTHER REQUIREMENTS

- 1. The permittee shall monitor emissions and operating information for FG LDRK&TANKS in accordance with the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subparts A and XX. The permittee shall keep records of all source emissions data and operating information on file at the facility and make them available to the Department upon request. (R 336.1205, R 336.1225, R 336.1702, R 336.1901, 40 CFR Part 60 Subparts A & XX)
- 2. The permittee shall comply with the provisions of the federal National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR 63, Subparts A and BBBBBB, as applicable. **(40 CFR 63, Subparts A and BBBBBB)**