

**MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
AIR QUALITY DIVISION**

June 25, 2024

PERMIT TO INSTALL
42-05C

ISSUED TO
Citgo Petroleum Corporation

LOCATED AT
2233 South 3rd Street, Niles Terminal
Niles, Michigan 49120

IN THE COUNTY OF
Berrien

STATE REGISTRATION NUMBER
B9043

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environment, Great Lakes, and Energy. 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: June 10, 2024 | |
| DATE PERMIT TO INSTALL APPROVED: June 25, 2024 | SIGNATURE: |
| DATE PERMIT VOIDED: | SIGNATURE: |
| DATE PERMIT REVOKED: | SIGNATURE: |

PERMIT TO INSTALL

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COMMON ACRONYMS

| | |
|----------------------------|---|
| AQD | Air Quality Division |
| BACT | Best Available Control Technology |
| CAA | Clean Air Act |
| CAM | Compliance Assurance Monitoring |
| CEMS | Continuous Emission Monitoring System |
| CFR | Code of Federal Regulations |
| COMS | Continuous Opacity Monitoring System |
| Department/department/EGLE | Michigan Department of Environment, Great Lakes, and Energy |
| EU | Emission Unit |
| FG | Flexible Group |
| GACS | Gallons of Applied Coating Solids |
| GC | General Condition |
| GHGs | Greenhouse Gases |
| HVLP | High Volume Low Pressure* |
| ID | Identification |
| IRSL | Initial Risk Screening Level |
| ITSL | Initial Threshold Screening Level |
| LAER | Lowest Achievable Emission Rate |
| MACT | Maximum Achievable Control Technology |
| MAERS | Michigan Air Emissions Reporting System |
| MAP | Malfunction Abatement Plan |
| MSDS | Material Safety Data Sheet |
| NA | Not Applicable |
| NAAQS | National Ambient Air Quality Standards |
| NESHAP | National Emission Standard for Hazardous Air Pollutants |
| NSPS | New Source Performance Standards |
| NSR | New Source Review |
| PS | Performance Specification |
| PSD | Prevention of Significant Deterioration |
| PTE | Permanent Total Enclosure |
| PTI | Permit to Install |
| RACT | Reasonable Available Control Technology |
| ROP | Renewable Operating Permit |
| SC | Special Condition |
| SCR | Selective Catalytic Reduction |
| SNCR | Selective Non-Catalytic Reduction |
| SRN | State Registration Number |
| TBD | To Be Determined |
| TEQ | Toxicity Equivalence Quotient |
| USEPA/EPA | United States Environmental Protection Agency |
| VE | Visible Emissions |

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

POLLUTANT / MEASUREMENT ABBREVIATIONS

| | |
|-------------------|--|
| acfm | Actual cubic feet per minute |
| BTU | British Thermal Unit |
| °C | Degrees Celsius |
| CO | Carbon Monoxide |
| CO ₂ e | Carbon Dioxide Equivalent |
| dscf | Dry standard cubic foot |
| dscm | Dry standard cubic meter |
| °F | Degrees Fahrenheit |
| gr | Grains |
| HAP | Hazardous Air Pollutant |
| Hg | Mercury |
| hr | Hour |
| HP | Horsepower |
| H ₂ S | Hydrogen Sulfide |
| kW | Kilowatt |
| lb | Pound |
| m | Meter |
| mg | Milligram |
| mm | Millimeter |
| MM | Million |
| MW | Megawatts |
| NMOC | Non-Methane Organic Compounds |
| NO _x | Oxides of Nitrogen |
| ng | Nanogram |
| PM | Particulate Matter |
| PM ₁₀ | Particulate Matter equal to or less than 10 microns in diameter |
| PM _{2.5} | Particulate Matter equal to or less than 2.5 microns in diameter |
| pph | Pounds per hour |
| ppm | Parts per million |
| ppmv | Parts per million by volume |
| ppmw | Parts per million by weight |
| psia | Pounds per square inch absolute |
| psig | Pounds per square inch gauge |
| scf | Standard cubic feet |
| sec | Seconds |
| SO ₂ | Sulfur Dioxide |
| TAC | Toxic Air Contaminant |
| Temp | Temperature |
| THC | Total Hydrocarbons |
| tpy | Tons per year |
| µg | Microgram |
| µm | Micrometer or Micron |
| VOC | Volatile Organic Compounds |
| yr | Year |

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 Environment, Great Lakes, and Energy, 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 Rule 210 (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 Rule 219 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 Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. **(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 condition 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 Rule 301, 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 Rule 303 (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 Rule 370(2). **(R 336.1370)**
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. **(R 336.2001)**

EMISSION UNIT 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 (Including Process Equipment & Control Device(s)) | Flexible Group ID |
|------------------|--|-------------------|
| EUTANK1 | 1,008,000 gallon internal floating roof tank for storing gasoline or distillate fuel oil | FGFUELTANKS |
| EUTANK2 | 2,310,000 gallon internal floating roof tank for storing gasoline or distillate fuel oil | FGFUELTANKS |
| EUTANK3 | 1,470,000 gallon internal floating roof tank for storing gasoline or distillate fuel oil | FGFUELTANKS |
| EUTANK5 | 5,040,000 gallon internal floating roof tank for storing gasoline or distillate fuel oil | FGFUELTANKS |
| EUTANK10 | 10,584 gallon horizontal tank for storing gasoline additive | NA |
| EUTANK11 | 6,006 gallon horizontal tank for storing gasoline additive | NA |
| EUTANK12 | 1,000 gallon horizontal tank for storing premium diesel fuel additive | NA |
| EUTANK13 | 1,000 gallon horizontal tank for storing premium diesel fuel additive | NA |
| EUTANK14 | 8,000 gallon horizontal tank for storing lubricity additive for diesel fuel | NA |
| EUTANK15 | 30,000 gallon fixed roof tank for ethanol | FGETHANOLTANKS |
| EUTANK16 | 30,000 gallon fixed roof tank for ethanol | FGETHANOLTANKS |
| EUTANK19 | 8,000 gallon horizontal tank for storing gasoline additive | NA |
| EUTANK21 | 560 gallon underground knockout tank | NA |
| EUTANK22 | 10,000 gallon underground petroleum contact water (PCW) tank | NA |
| EUTANK23 | 10,000 gallon fixed roof petroleum contact water tank | NA |
| EUTOTE18 | 550 gallon red dye storage tote | NA |
| EULOADRACK | Three-bay, twelve-arm loading rack with vapor combustion unit | NA |

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 336.1291.

EULOADRACK EMISSION UNIT CONDITIONS

DESCRIPTION

Three-bay, twelve-arm loading rack with vapor combustion unit.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Vapor combustion unit

I. EMISSION LIMIT(S)

| Pollutant | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|------------------|---------------------------|--|------------------|--|---|
| 1. VOC | 30 mg per liter loaded | Test protocol* | EULOADRACK | SC VI.1 | R 336.1205 |
| 2. VOC | 56.0 tpy | 12-month rolling time period as determined at the end of each calendar month. | EULOADRACK | SC VI.3 | R 336.1205 R 336.1609 |

II. MATERIAL LIMIT(S)

| Material | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|---------------------------|------------------------|---|------------------|--|---|
| 1. Gasoline | 244,700,000 gallons | 12-month rolling time period as determined at the end of each calendar month | EULOADRACK | SC VI.2 | R 336.1205 |
| 2. Distillate fuel oil | 82,200,000 gallons | 12-month rolling time period as determined at the end of each calendar month | EULOADRACK | SC VI.2 | R 336.1205 R 336.1225 |
| 3. Ethanol | 24,400,000 gallons | 12-month rolling time period as determined at the end of each calendar month | EULOADRACK | SC VI.2 | R 336.1205 |

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not load any organic compound through EULOADRACK unless all provisions of Rules 609 and 627 are met. (R 336.1205, R 336.1225, R 336.1609, R 336.1627, R 336.1910)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EULOADRACK unless the vapor combustion unit is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes ensuring the presence of a flame in the vapor combustion unit during organic compound loading. **(R 336.1205, R 336.1225, R 336.1609, R 336.1627, R 336.1910)**

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, in a satisfactory manner, the throughput of gasoline, distillate fuel oil, ethanol, additives, and dyes for EULOADRACK on a monthly and 12-month rolling time period basis. **(R 336.1205, R 336.1225)**
2. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period records of the throughput of gasoline, distillate fuel oil, and ethanol for EULOADRACK, as required by SC II.1, II.2, and II.3. The permittee shall keep these records on file for a period of at least five years and make the records available to the Department upon request. **(R 336.1205, R 336.1225)**
3. The permittee shall calculate the VOC emission rate from EULOADRACK monthly, for the preceding 12-month rolling time period, using a method acceptable to the AQD District Supervisor. The permittee shall keep these records on file for a period of at least five years and make the records available to the Department upon request. **(R 336.1205)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

| Stack & Vent ID | Maximum Exhaust Diameter / Dimensions (inches) | Minimum Height Above Ground (feet) | Underlying Applicable Requirements |
|----------------------------|---|---|---|
| 1. EULOADRACK | 96 ¹ | 35 ¹ | R 336.1225 |

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

FLEXIBLE GROUP SPECIAL CONDITIONS

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 |
|-------------------|---|------------------------------------|
| FGFUELTANKS | Internal floating roof tanks for storing gasoline or distillate fuel oil. | EUTANK1, EUTANK2, EUTANK3, EUTANK5 |
| FGETHANOLTANKS | Fixed roof tanks for storing ethanol. | EUTANK15, EUTANK16 |

FGFUEL TANKS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Internal floating roof tanks for storing gasoline or distillate fuel oil.

Emission Unit: EUTANK1, EUTANK2, EUTANK3, EUTANK5

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

| Pollutant | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|-----------|----------|--|--------------|-----------------------------------|--|
| 1. VOC | 26.6 tpy | 12-month rolling time period as determined at the end of each calendar month. | FGFUEL TANKS | SC VI.4 | R 336.1205 |

II. MATERIAL LIMIT(S)

| Material | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|---------------------------|------------------------|--|--------------|-----------------------------------|--|
| 1. Gasoline | 244,700,000 gallons | 12-month rolling time period as determined at the end of each calendar month. | FGFUEL TANKS | SC VI.3 | R 336.1205 |
| 2. Distillate fuel oil | 82,200,000 gallons | 12-month rolling time period as determined at the end of each calendar month. | FGFUEL TANKS | SC VI.3 | R 336.1205, R 336.1225 |

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EUTANK1 unless all provisions of Rule 604 are met. **(R 336.1604, R 336.1910)**
2. The permittee shall not operate EUTANK2 unless all provisions of Rule 604 are met. **(R 336.1604, R 336.1910)**
3. The permittee shall not operate EUTANK5 unless all provisions of Rule 604 are met. **(R 336.1604, R 336.1910)**
4. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subparts A and Kb, as they apply to EUTANK3. **(R 336.1702(b), 40 CFR Part 60 Subparts A & Kb)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate any tank in FGFUEL TANKS unless the tank's internal floating roof is installed, maintained, and operated in a satisfactory manner. **(R 336.1205, R 336.1910, R 336.1702(b), 40 CFR Part 60 Subparts A & Kb)**

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, in a satisfactory manner, the gasoline and distillate fuel oil throughput for FGFUEL TANKS on a monthly and 12-month rolling time period basis. **(R 336.1205, R 336.1225)**
2. The permittee shall perform inspections and monitor operating information for EUTANK3 in accordance with the federal Standards of Performance for New Stationary sources as specified in 40 CFR Part 60 Subparts A and Kb. **(R 336.1702(b), 40 CFR Part 60 Subparts A & Kb)**
3. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period records of the gasoline and distillate fuel oil throughput for FGFUEL TANKS, as required by SC II.1 and II.2. The permittee shall keep these records on file for a period of at least five years and make the records available to the Department upon request. **(R 336.1205, R 336.1225)**
4. The permittee shall calculate the VOC emission rate from FGFUEL TANKS monthly, for the preceding 12-month rolling time period, using a method acceptable to the AQD District Supervisor. The permittee shall keep these records on file for a period of at least five years and make the records available to the Department upon request. **(R 336.1205)**
5. The permittee shall keep records of inspections and operating information for EUTANK3 in accordance with the federal Standards of Performance for New Stationary sources as specified in 40 CFR Part 60 Subparts A and Kb. The permittee shall keep these records on file for a period of at least five years and make the records available to the Department upon request. **(40 CFR Part 60 Subparts A & Kb)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

FGETHANOLTANKS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Fixed roof tanks for storing ethanol.

Emission Unit: EUTANK15, EUTANK16

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

| Pollutant | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|------------------|--------------|---|------------------|--|---|
| 1. VOC | 1.24 tpy | 12-month rolling time period as determined at the end of each calendar month. | FGETHANOLTANKS | SC VI.2 | R 336.1205 |

II. MATERIAL LIMIT(S)

| Material | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|-----------------|--------------------|---|------------------|--|---|
| 1. Ethanol | 24,400,000 gallons | 12-month rolling time period as determined at the end of each calendar month. | FGETHANOLTANKS | SC VI.1 | R 336.1205 |

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

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, monthly and rolling 12-month time period records of the ethanol throughput for FGETHANOLTANKS, as required by SC II.1. The permittee shall keep these records on file for a period of at least five years and make the records available to the Department upon request. (R 336.1205)

2. The permittee shall calculate the VOC emission rate from FGETHANOLTANKS monthly, for the preceding 12-month rolling time period, using a method acceptable to the AQD District Supervisor. The permittee shall keep these records on file for a period of at least five years and make the records available to the Department upon request. **(R 336.1205)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

FGFACILITY CONDITIONS

DESCRIPTION

The following conditions apply source-wide to all process equipment including equipment covered by other permits, grand-fathered equipment, and exempt equipment.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

| Pollutant | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|-----------------------|--------------|---|------------------|--|---|
| 1. VOC | 89 tpy | 12-month rolling time period as determined at the end of each calendar month. | FGFACILITY | VI.1 | R 336.1205(3) |
| 2. any individual HAP | 8.9 tpy | 12-month rolling time period as determined at the end of each calendar month. | FGFACILITY | VI.1 | R 336.1205(3) |
| 3. total HAPs | 22.4 tpy | 12-month rolling time period as determined at the end of each calendar month. | FGFACILITY | VI.1 | R 336.1205(3) |

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

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 calculate the VOC, individual HAP, and total HAPs emission rates from FGFACILITY monthly, for the preceding 12-month rolling time period, using a method acceptable to the AQD District Supervisor. The permittee shall keep these records on file for a period of at least five years and make the records available to the Department upon request. (R 336.1205(3))

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA