

**PERMIT TO INSTALL**

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**Common Abbreviations / Acronyms**

<b>Common Acronyms</b>		<b>Pollutant/Measurement Abbreviations</b>	
AQD	Air Quality Division	BTU	British Thermal Unit
ANSI	American National Standards Institute	°C	Degrees Celsius
BACT	Best Available Control Technology	CO	Carbon Monoxide
CAA	Clean Air Act	dscf	Dry standard cubic foot
CEM	Continuous Emission Monitoring	dscm	Dry standard cubic meter
CFR	Code of Federal Regulations	°F	Degrees Fahrenheit
COM	Continuous Opacity Monitoring	gr	Grains
EPA	Environmental Protection Agency	Hg	Mercury
EU	Emission Unit	hr	Hour
FG	Flexible Group	H <sub>2</sub> S	Hydrogen Sulfide
GACS	Gallon of Applied Coating Solids	hp	Horsepower
GC	General Condition	lb	Pound
HAP	Hazardous Air Pollutant	m	Meter
HVLP	High Volume Low Pressure *	mg	Milligram
ID	Identification	mm	Millimeter
LAER	Lowest Achievable Emission Rate	MM	Million
MACT	Maximum Achievable Control Technology	MW	Megawatts
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfunction Abatement Plan	NO <sub>x</sub>	Oxides of Nitrogen
MDEQ	Michigan Department of Environmental Quality	PM	Particulate Matter
MIOSHA	Michigan Occupational Safety & Health Administration	PM10	PM less than 10 microns diameter
MSDS	Material Safety Data Sheet	PM2.5	PM less than 2.5 microns diameter
NESHAP	National Emission Standard for Hazardous Air Pollutants	pph	Pound per hour
NSPS	New Source Performance Standards	ppm	Parts per million
NSR	New Source Review	ppmv	Parts per million by volume
PS	Performance Specification	ppmw	Parts per million by weight
PSD	Prevention of Significant Deterioration	psia	Pounds per square inch absolute
PTE	Permanent Total Enclosure	psig	Pounds per square inch gauge
PTI	Permit to Install	scf	Standard cubic feet
RACT	Reasonably Available Control Technology	sec	Seconds
ROP	Renewable Operating Permit	SO <sub>2</sub>	Sulfur Dioxide
SC	Special Condition	THC	Total Hydrocarbons
SCR	Selective Catalytic Reduction	tpy	Tons per year
SRN	State Registration Number	µg	Microgram
TAC	Toxic Air Contaminant	VOC	Volatile Organic Compounds
TEQ	Toxicity Equivalence Quotient	yr	Year
VE	Visible Emissions		

\* For High Volume Low Pressure (HVLP) applicators, the pressure measured at the HVLP gun air cap shall not exceed ten (10) pounds per square inch gauge (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, 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 AQD District Supervisor shall be notified, in writing, of a change in ownership or operational control of the stationary source or emission unit(s) authorized by this Permit to Install pursuant to R 336.1219. The notification shall include all of the information required by R 336.1219(1)(a) and (b). In addition, a new owner or operator must submit a written statement pursuant to R 336.1219(1)(c), agreeing to and accepting the terms and conditions of this Permit to Install, and shall notify the AQD District Supervisor of any change in the contact person for this Permit to Install. **(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.

<b>Emission Unit ID</b>	<b>Emission Unit Description (Process Equipment &amp; Control Devices)</b>	<b>Flexible Group ID</b>
EUTANK705	External floating roof storage tank.	FGTANKFARM
EUTANK706	External floating roof storage tank.	FGTANKFARM
EUTANK707	External floating roof storage tank.	FGTANKFARM
EUTANK708	External floating roof storage tank.	FGTANKFARM
EUTANK709	External floating roof storage tank.	FGTANKFARM
EUTANK710	External floating roof storage tank.	FGTANKFARM
EUTANK711	Fixed cone roof tank with a welded steel internal floating roof and a mechanical shoe primary seal to control emissions.	FGINTFLOATROOFTK, FGTANKFARM
EUTANK712	Fixed cone roof tank with a welded steel internal floating roof and a mechanical shoe primary seal to control emissions.	FGINTFLOATROOFTK, FGTANKFARM
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.		

**FLEXIBLE GROUP SUMMARY TABLE**

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

<b>Flexible Group ID</b>	<b>Flexible Group Description</b>	<b>Associated Emission Unit IDs</b>
<b>FGINTFLOATROOFTK</b>	<b>Two internal floating roof tanks</b>	<b>EUTANK711, EUTANK712</b>
<b>FGTANKFARM</b>	All tanks at the stationary source including equipment covered by other permits, grand-fathered equipment and exempt equipment.	EUTANK705, EUTANK706, EUTANK707, EUTANK708, EUTANK709, EUTANK710, EUTANK711, EUTANK712
<b>FGFACILITY</b>	All process equipment at the stationary source including equipment covered by other permits, grandfathered equipment and exempt equipment.	FGINTFLOATROOFTK FGTANKFARM

**The following conditions apply to: FGINTFLOATROOFTK**

**I. EMISSION LIMITS**

**II. MATERIAL LIMITS**

**III. PROCESS/OPERATIONAL RESTRICTIONS**

1. 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 FGINTFLOATROOFTK. **[R336.1702(b), 40 CFR Part 60 Subparts A and Kb]**

**IV. DESIGN/EQUIPMENT PARAMETERS**

1. The permittee shall equip and maintain the storage tanks with the deck and seal configuration listed in the following table:

<b>Equipment</b>	<b>Type</b>	<b>Deck</b>	<b>Primary Seal</b>	<b>Secondary Seal</b>	<b>Applicable Requirement</b>
EUTANK711	Internal Floating roof	Welded	Mechanical Shoe	None	<b>R336.1205(3), R336.1702(b), 40 CFR Part 60 Subpart Kb</b>
EUTANK712	Internal Floating roof	Welded	Mechanical Shoe	None	<b>R336.1205(3), R336.1702(b), 40 CFR Part 60 Subpart Kb</b>

**V. TESTING/SAMPLING**

**VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall perform inspections and monitor operating information for FGINTFLOATROOFTK in accordance with the federal Standards of Performance for New Stationary sources as specified in 40 CFR Part 60 Subparts A and Kb. **[R336.1702(b), 40 CFR Part 60 Subparts A & Kb]**
2. The permittee shall keep, in a satisfactory manner, records of inspections and operating information for FGINTFLOATROOFTK 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 all records on file for a period of at least five years and make them available to the Department upon request. **[R336.1702(b), 40 CFR Part 60 Subparts A and Kb]**

**VII. REPORTING**

**VIII. STACK/VENT RESTRICTIONS**

**IX. OTHER REQUIREMENTS**

**Footnotes:**

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

**The following conditions apply to: FGTANKFARM**

**I. EMISSION LIMITS**

**II. MATERIAL LIMITS**

Material	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. crude oil (with up to 1.0% transmix volume) and/or naphtha	3,438,708,000 gallons	12-month rolling time period as determined at the end of each month	FGTANKFARM	VI. 2.	R336.1205(3)

**III. PROCESS/OPERATIONAL RESTRICTIONS**

**IV. DESIGN/EQUIPMENT PARAMETERS**

1. The permittee shall equip and maintain the storage tanks with the deck and seal configuration listed in the following table:

Equipment	Type	Deck	Primary Seal	Secondary Seal	Applicable Requirement
EUTANK705	External floating roof	Welded	Mechanical Shoe	Rim-mounted	R336.1205(3), R336.1623
EUTANK706	External floating roof	Welded	Mechanical Shoe	Rim-mounted	R336.1205(3), R336.1623
EUTANK707	External floating roof	Welded	Mechanical Shoe	Rim-mounted	R336.1205(3), R336.1623
EUTANK708	External floating roof	Welded	Mechanical Shoe	Rim-mounted	R336.1205(3), R336.1623
EUTANK709	External floating roof	Welded	Mechanical Shoe	Rim-mounted	R336.1205(3), R336.1623
EUTANK710	External floating roof	Welded	Mechanical Shoe	Rim-mounted	R336.1205(3), R336.1623

**V. TESTING/SAMPLING**

**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 records of the material throughput for each tank in FGTANKFARM. 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. [R336.1205(3)]

**VII. REPORTING**

**VIII. STACK/VENT RESTRICTIONS**

**IX. OTHER REQUIREMENTS**

**Footnotes:**

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

**The following conditions apply Source-Wide to: FGFACILITY**

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	45TPY	12-month rolling time period as determined at the end of each calendar month.	FGFACILITY	VI.1.	R336.1205(3)
2. Each individual HAP	Less than 9.0TPY	12-month rolling time period as determined at the end of each calendar month.	FGFACILITY	VI.1.	R336.1205(3)
3. tOTAL HAPs	Less than 22.5TPY	12-month rolling time period as determined at the end of each calendar month.	FGFACILITY	VI.1.	R336.1205(3)

**II. MATERIAL LIMITS**

**III. PROCESS/OPERATIONAL RESTRICTIONS**

**IV. DESIGN/EQUIPMENT PARAMETERS**

**V. TESTING/SAMPLING**

**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, individual HAP, and total HAP emission calculations for FGFACILITY. 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. [R336.1205(3)]

**VII. REPORTING**

**VIII. STACK/VENT RESTRICTIONS**

**IX. OTHER REQUIREMENTS**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any recordkeeping, reporting or notification special condition. **[R336.1205(3)]**

**Footnotes:**

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