

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

December 20, 2022

PERMIT TO INSTALL
527-97F

ISSUED TO
Michigan Gas Utilities Corporation

LOCATED AT
21663 24 Mile Road
Olivet, Michigan 49076

IN THE COUNTY OF
Calhoun

STATE REGISTRATION NUMBER
N6015

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: October 20, 2022	
DATE PERMIT TO INSTALL APPROVED: December 20, 2022	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
PM10	Particulate Matter equal to or less than 10 microns in diameter
PM2.5	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))	Installation Date / Modification Date	Flexible Group ID
EUDEHY02	Cortright-Lee dehydration system consisting of a contactor tower, glycol pump, flash tank (emissions are routed to the reboiler burner), glycol regeneration still (emissions are controlled by condensation), and gas fired glycol reboiler.	7/1/1982	NA
EUDEHY03	Partello-Anderson dehydration system consisting of a contactor tower, glycol pump, flash tank (emissions are routed to the reboiler burner), glycol regeneration still (emissions are controlled by condensation), and gas fired glycol reboiler.	9/1/2007	NA
EUENGINE05	750 brake horsepower natural gas fired reciprocating engine	4/1/1982	FGENGINES
EUENGINE06	1,085 brake horsepower natural gas fired reciprocating engine	8/1/2005	FGENGINES
EUENGINE07	1,380 brake horsepower natural gas fired reciprocating engine	TBD	FGENGINES

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.

**EUDEHY02
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Cortright-Lee dehydration system consisting of a contactor tower, glycol pump, flash tank (emissions are routed to the reboiler burner), glycol regeneration still (emissions are controlled by condensation), and gas fired glycol reboiler.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Glycol Regeneration Still Vent

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	5.9 tpy	12-month rolling time period as determined at the end of each calendar month	EUDEHY02	SC V.1, VI.2, VI.4, VI.5	R 336.1702(a)
2. Benzene	0.99 tpy	12-month rolling time period as determined at the end of each calendar month	EUDEHY02	SC V.1, VI.3, VI.4, VI.5	R 336.1901 R 336.1225

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EUDEHY02 for more than 8,232 hours per 12-month rolling time period as determined at the end of each calendar month. **(R 336.1702(a), R 336.1225, R 336.1901)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not process natural gas in EUDEHY02 unless the still vent exhaust gas is routed through a downcomer and the exhaust gas temperature is 90° F or less, as determined in accordance with SC VI.4. **(R 336.1702(a), R 336.1225, R 336.1901)**
2. The permittee shall not operate EUDEHY02 unless the flash tank is installed and operating properly. Proper operation includes volatilizing the organic compounds out of the rich glycol stream and routing them to the EUDEHY02 reboiler burner. **(R 336.1702(a), R 336.1225, R 336.1901, R 336.1910)**
3. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a device to monitor and record the exhaust gas temperature of each dehydrator downcomer on a daily basis, while the dehydrator is processing natural gas. **(R 336.1702(a), R 336.1225, R 336.1901, R 336.1910)**

V. TESTING/SAMPLING

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

1. At least once each calendar year the permittee shall obtain, by sampling, an analysis of the wet gas stream for each dehydrator. The permittee shall analyze the sample for nitrogen, carbon dioxide, hydrogen sulfide, C1 through C6 series hydrocarbons, benzene, toluene, xylene, ethylbenzene, and heptanes plus. The permittee must submit any request for a change in the sampling frequency to the AQD District Supervisor for review and approval. **(R 336.1225, R 336.1702(a), R 336.1901)**

VI. MONITORING/RECORDKEEPING

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

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 recordkeeping, reporting or notification special condition. **(R 336.1225, R 336.1702(a), R 336.1901)**
2. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month VOC emission calculation records for EUDEHY02, as required by SC I.1. Emission rates may be calculated based on the most updated version of GRI-GLYCalc™ and using the actual operating conditions as inputs to the model. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1702(a))**
3. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month benzene emission calculation records for EUDEHY02, as required by SC I.2. Emission rates may be calculated based on the most updated version of GRI-GLYCalc™ and using the actual operating conditions as inputs to the model. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1225, R 336.1901)**
4. The permittee shall keep, in a satisfactory manner, daily records of the exhaust gas temperature of each dehydrator downcomer, as required by SC IV.3. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1702(a), R 336.1225, R 336.1901, R 336.1910)**
5. The permittee shall keep, in a satisfactory manner, the monthly and previous 12-month hours of operation for EUDEHY02. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1225, R 336.1702(a), R 336.1901)**

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. SV-DEHY02 still vent	3	33	R 336.1901 R 336.1225

IX. OTHER REQUIREMENT(S)

NA

**EUDEHY03
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Partello-Anderson dehydration system consisting of a contactor tower, glycol pump, flash tank (emissions are routed to the reboiler burner), glycol regeneration still (emissions are controlled by condensation), and gas fired glycol reboiler.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Glycol Regeneration Still Vent

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	5.7 tpy	12-month rolling time period as determined at the end of each calendar month	EUDEHY03	SC V.1, VI.2, VI.4	R 336.1702(a)
2. Benzene	0.90 tpy	12-month rolling time period as determined at the end of each calendar month	EUDEHY03	SC V.1, VI.3, VI.4	R 336.1225 R 336.1901

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not process natural gas in EUDEHY03 unless the still vent exhaust gas is routed through a downcomer and the exhaust gas temperature is 90° F or less, as determined in accordance with SC VI.4. **(R 336.1702(a), R 336.1225, R 336.1901)**
2. The permittee shall not operate EUDEHY03 unless the flash tank is installed and operating properly. Proper operation includes volatilizing the organic compounds out of the rich glycol stream and routing them to the EUDEHY03 reboiler burner. **(R 336.1702(a), R 336.1225, R 336.1901, R 336.1910)**
3. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a device to monitor and record the exhaust gas temperature of each dehydrator downcomer on a daily basis, while the dehydrator is processing natural gas. **(R 336.1702(a), R 336.1225, R 336.1901, R 336.1910)**

V. TESTING/SAMPLING

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

1. At least once each calendar year the permittee shall obtain, by sampling, an analysis of the wet gas stream for each dehydrator. The permittee shall analyze the sample for nitrogen, carbon dioxide, hydrogen sulfide, C1 through C6 series hydrocarbons, benzene, toluene, xylene, ethylbenzene, and heptanes plus. The permittee must submit any request for a change in the sampling frequency to the AQD District Supervisor for review and approval. **(R 336.1225, R 336.1702(a), R 336.1901)**

VI. MONITORING/RECORDKEEPING

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

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 recordkeeping, reporting or notification special condition. **(R 336.1225, R 336.1702(a), R 336.1901)**
2. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month VOC emission calculation records for EUDEHY03, as required by SC I.1. Emission rates may be calculated based on the most updated version of GRI-GLYCalc™ and using the actual operating conditions as inputs to the model. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1702(a))**
3. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month benzene emission calculation records for EUDEHY03, as required by SC I.2. Emission rates may be calculated based on the most updated version of GRI-GLYCalc™ and using the actual operating conditions as inputs to the model. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1225, R 336.1901)**
4. The permittee shall keep, in a satisfactory manner, daily records of the exhaust gas temperature of each dehydrator downcomer, as required by SC IV.3. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1702(a), R 336.1225, R 336.1901, R 336.1910)**

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. SV-DEHY03 still vent	3	33	R 336.1225 R 336.1901

IX. OTHER REQUIREMENT(S)

NA

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
FGENGINES	Three natural gas fired reciprocating compressor engines.	EUENGINE05 EUENGINE06 EUENGINE07

**FGENGINES
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Three natural gas fired reciprocating compressor engines.

Emission Unit: EUENGINE05, EUENGINE06, EUENGINE07

POLLUTION CONTROL EQUIPMENT

EUENGINE05- Uncontrolled
EUENGINE06- Uncontrolled
EUENGINE07- Catalytic convertor

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. NOx	45.5 tpy	12-month rolling time period as determined at the end of each calendar month	EUENGINE05	SC VI.1, VI.2	R 336.1205(3), 40 CFR 52.21 (c) & (d)
2. NOx	19.8 tpy	12-month rolling time period as determined at the end of each calendar month	EUENGINE06	SC VI.1, VI.2	R 336.1205(3), 40 CFR 52.21 (c) & (d)
3. NOx	6.66 tpy	12-month rolling time period as determined at the end of each calendar month	EUENGINE07	SC VI.1, VI.2	R 336.1205(3), 40 CFR 52.21 (c) & (d)
4. NOx	1.0 g/hp-hr Or 82 ppmvd @ 15% O ₂	Hourly	EUENGINE07	SC III.2, SC V.2.	40 CFR 60.423 3(e), Table 1 of 40 CFR Part 60 Subpart JJJJ
5. CO	2.0 g/hp-hr Or 270 ppmvd @ 15% O ₂	Hourly	EUENGINE07	SC III.2, SC V.2.	40 CFR 60.423 3(e), Table 1 of 40 CFR Part 60 Subpart JJJJ
6. VOC ^A	0.7 g/hp-hr Or 60 ppmvd @ 15% O ₂	Hourly	EUENGINE07	SC III.2, SC V.2.	40 CFR 60.423 3(e), Table 1 of 40 CFR Part 60 Subpart JJJJ

^A Per footnote "d" of Table 1 of 40 CFR Part 60 Subpart JJJJ, when calculating emissions of VOCs, emissions of formaldehyde should not be included.

II. MATERIAL LIMIT(S)

1. The permittee shall burn only natural gas, in EUENGINE05, EUENGINE06, and EUENGINE07. **(R 336.1205(1)(a), R 336.1225, R 336.1702(a))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall keep a maintenance plan for EUENGINE07 and shall, to the extent practicable, maintain and operate in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 60.4243(b)(2))**
2. The permittee shall operate and maintain EUENGINE07 such that they meet the emission limits in SC I.3, SC I.4, and SC I.5 over the entire life of the engine. **(40 CFR 60.4234, 40 CFR 60.4243(b))**
3. If the permittee purchased a certified engine, according to procedures specified in 40 CFR Part 60 Subpart JJJJ, for the same model year, the permittee shall meet the following requirements for EUENGINE07:
 - a) Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions,
 - b) May only adjust engine settings according to and consistent with the manufacturer's emission-related written instructions,
 - c) Meet the requirements as specified in 40 CFR 1068 Subparts A through D.

If the permittee does not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine.

(40 CFR 60.4243(b)(1))

4. If the permittee purchased a non-certified engine or a certified engine operating in a non-certified manner, the permittee shall keep a maintenance plan and records of conducted maintenance for EUENGINE07 and shall, to the extent practicable, maintain and operate in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 60.4243(b)(2))**
5. Within 180 days after trial operation, the permittee shall submit, implement, and maintain a malfunction abatement plan (MAP) as described in Rule 911(2) for FGEngines. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 90 days after such an event occurs. The permittee shall also amend the MAP within 90 days if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1910, R 336.1911)**

6. The permittee shall not operate EUENGINE07 until EUENGINE05 is permanently removed from service. **(R 336.1225, R 336.1205(3), 40 CFR 52.21(c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EUENGINE07 unless the associated catalytic convertor is installed, maintained, and operated in a satisfactory manner. Satisfactory manner includes operating and maintaining each control device in accordance with an approved MAP for EUENGINE07 as required in SC III.5. **(R 336.1205(1)(a) & (3), R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, 40 CFR 52.21(c) & (d), 40 CFR Part 60 Subpart JJJJ)**
2. The nameplate capacity of EUENGINE07 shall not exceed 1029 kW (1380 bhp), as certified by the equipment manufacturer. **(R 336.1205(1)(a) & (3), 40 CFR 60.4230)**
3. The nameplate capacity of EUENGINE06 shall not exceed 809 kW (1085 bhp). **(R 336.1205(1)(a) & (3), R 336.1225, 40 CFR 52.21(c) & (d))**

V. TESTING/SAMPLING

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

1. If EUENGINE07 is a non-certified engine and control device or a certified engine operating in a non-certified manner, per 40 CFR Part 60 Subpart JJJJ, the permittee must demonstrate compliance as follows for the applicable engine:
 - a) Conduct an initial performance test to demonstrate compliance with the applicable emission standards in 40 CFR 60.4233(e), within 60 days after achieving the maximum production rate at which EUENGINE07 will be operated, but no later than 1 year after initial startup.
 - b) If a performance test is required, the performance tests shall be conducted according to 40 CFR 60.4244.
 - c) Conduct subsequent performance testing every 8,760 hours of engine operation or every 3 years, whichever comes first.

If a performance test is required, no less than 30 days prior to testing, a complete test plan shall be submitted to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(40 CFR 60.8, 40 CFR 60.4243, 40 CFR 60.4244, 40 CFR 60.4245, 40 CFR Part 60 Subpart JJJJ)**

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 previous 12-month NO_x emission calculation records for each engine included in FGENGINES, as required by SC I.1 and I.2. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1205(3), 40 CFR 52.21(c) and (d))**
2. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month hours of operation and fuel consumption for each engine included in FGENGINES. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1205(3), 40 CFR 52.21(c) and (d))**
3. The permittee shall maintain a log of all maintenance activities conducted according to the MAP (pursuant to SC III.1). The permittee shall keep this log on file at the facility and make it available to the Department upon request. **(R 336.1702(a), R 336.1911, 40 CFR 52.21(c) & (d))**
4. The permittee shall keep, in a satisfactory manner, the following records for EUENGINE07:
 - a) All notifications submitted to comply with this subpart and all documentation supporting any notification.
 - b) Maintenance conducted on the engine.
 - c) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 1048, 1054, and 1060, as applicable.

- d) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner, documentation that the engine meets the emission standards.
 - i. Testing for the engine, as required in SC V.1.
 - ii. Maintenance activities for the engine, as required by SC III.3.

The permittee shall keep all records on file and make them available to the Department upon request.
(40 CFR 60.4233(e), 40 CFR 60.4243(b), 40 CFR 60.4245(a))

VII. REPORTING

1. If EUENGINE07 has not been certified by an engine manufacturer to meet the emission standards in 40 CFR 60.4231, the permittee shall submit an initial notification as required in 40 CFR 60.7(a)(1). The notification must include the following information:
 - a) The date construction of the engine commenced.
 - b) Name and address of the owner or operator.
 - c) The address of the affected source.
 - d) The engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement.
 - e) The emission control equipment.
 - f) Fuel used in the engine.

The notification must be postmarked no later than 30 days after construction commenced.
(40 CFR 60.7(a)(1), 40 CFR 60.4245(c))

2. The permittee shall submit a notification specifying whether EUENGINE07 will be operated in a certified or a non-certified manner to the AQD District Supervisor, in writing, within 30 days following the initial startup of the engine and within 30 days of switching the manner of operation. **(R 336.1201(3))**
3. Within 7 days after permanently shutting down EUENGINE05, as described in SC III.6, the permittee shall notify the AQD District Supervisor, in writing, of the completion of the activity. **(R 336.1201(3))**
4. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, the permittee shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of EUENGINE07. **(R 336.1201(7)(a))**

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. SVENGINE05	8	13	40 CFR 52.21 (c) & (d)
2. SVENGINE06	12	13.3	40 CFR 52.21 (c) & (d)

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
3. SVENGINE07	17	36	R 336.1225, 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subpart A and Subpart JJJJ, as they apply to EUENGINE07. **(40 CFR Part 60 Subparts A & JJJJ, 40 CFR 63.6590(c)(1))**
2. The permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR, Part 63, Subpart A and Subpart ZZZZ, as they apply to each engine in FGENGINES. **(40 CFR Part 63 Subparts A & ZZZZ)**

FG FACILITY 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. CO	89.9 tpy	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY	SC VI.1	R 336.1205(3)
2. VOC	20 tpy	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY	SC VI.1	R 336.1205(3)
3. NOx	80 tpy	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY	SC VI.1	R 336.1205(3)
4. Individual HAPs	9.0 tpy	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY	SC VI.2	R 336.1205(3)
5. Total HAPs	20 tpy	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY	SC VI.2	R 336.1205(3)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

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 previous 12-month CO, VOC, and NOx, emission calculation records for FG-FACILITY, as required by SC I.1 through I.3. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1205(3))**
2. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month individual HAP and total HAP emission calculation records for FG-FACILITY, as required by SC I.4 and I.5. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1205(3))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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