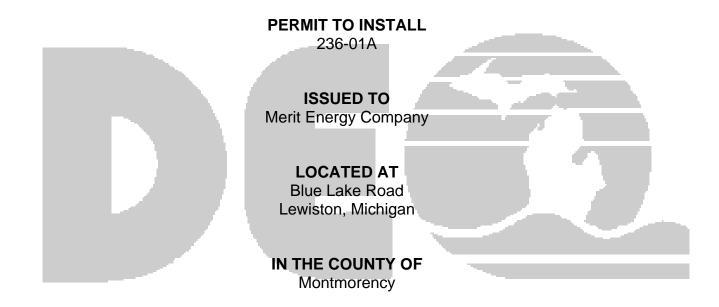
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION

May 10, 2006



STATE REGISTRATION NUMBER N5936

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: February 14, 2006 | | | |
|---|------------|--|--|
| May 10, 2006 | SIGNATURE: | | |
| DATE PERMIT VOIDED: | SIGNATURE: | | |
| DATE PERMIT REVOKED: | SIGNATURE: | | |

PERMIT TO INSTALL

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Common Abbreviations / Acronyms

| Common Acronyms | | | Pollutant/Measurement Abbreviations |
|-----------------|--|--------|--|
| AQD | Air Quality Division | Btu | British Thermal Unit |
| BACT | Best Available Control Technology | °C | Degrees Celsius |
| CAA | Clean Air Act | CO | Carbon Monoxide |
| CEM | Continuous Emission Monitoring | dscf | Dry standard cubic foot |
| CFR | Code of Federal Regulations | dscm | Dry standard cubic meter |
| COM | Continuous Opacity Monitoring | °F | Degrees Fahrenheit |
| EPA | Environmental Protection Agency | gr | Grains |
| EU | Emission Unit | Hg | Mercury |
| FG | Flexible Group | hr | Hour |
| GACS | Gallon of Applied Coating Solids | H_2S | Hydrogen Sulfide |
| GC | General Condition | hp | Horsepower |
| HAP | Hazardous Air Pollutant | lb | Pound |
| HVLP | High Volume Low Pressure * | m | Meter |
| ID | Identification | mg | Milligram |
| LAER | Lowest Achievable Emission Rate | mm | Millimeter |
| MACT | Maximum Achievable Control Technology | MM | Million |
| MAERS | Michigan Air Emissions Reporting System | MW | Megawatts |
| MAP | Malfunction Abatement Plan | ng | Nanogram |
| MDEQ | Michigan Department of Environmental Quality | NOx | Oxides of Nitrogen |
| MSDS | Material Safety Data Sheet | PM | Particulate Matter |
| NESHAP | National Emission Standard for Hazardous Air Pollutants | PM-10 | Particulate Matter less than 10 microns diameter |
| NSPS | New Source Performance Standards | pph | Pounds per hour |
| NSR | New Source Review | ppm | Parts per million |
| PS | Performance Specification | ppmv | Parts per million by volume |
| PSD | Prevention of Significant Deterioration | ppmw | Parts per million by weight |
| PTE | Permanent Total Enclosure | psia | Pounds per square inch absolute |
| PTI | Permit to Install | psig | Pounds per square inch gauge |
| RACT | Reasonably Available Control Technology | scf | Standard cubic feet |
| ROP | Renewable Operating Permit | sec | Seconds |
| SC | Special Condition Number | SO_2 | Sulfur Dioxide |
| SCR | Selective Catalytic Reduction | THC | Total Hydrocarbons |
| SRN | State Registration Number | tpy | Tons per year |
| TAC | Toxic Air Contaminant | μg | Microgram |
| TEQ | Toxicity Equivalence Quotient | VOC | Volatile Organic Compound |
| VE | Visible Emissions | yr | Year |
| | | | |
| | | | |

^{*} 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).

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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. [R336.1201(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. [R336.1201(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 R336.1210, 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. [R336.1201(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. [R336.1201(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 R336.1219. The notification shall include all of the information required by R336.1219(1)(a) and (b). In addition, a new owner or operator must submit a written statement pursuant to R336.1219(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 Pemit to Install. [R336.1219]
- 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. [R336.1901]
- 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). [R336.1912]
- 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.

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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 nor does it affect any liability for past violations under the Natural Resources and Environmental Protection Act, 1994 PA 451.

- 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 R336.1301, 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 R336.1303. [R336.1301]
 - 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 R336.1370(2). [R336.1370]
- 13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R336.2001 and R336.2003, under any of the conditions listed in R336.2001. [R336.2001]

SPECIAL CONDITIONS

Emission Unit Identification

| Emission Unit ID | Emission Unit Description | Stack Identification | | |
|--|---|----------------------|--|--|
| EUDEHY | Glycol dehydration system processing gas from the | SVDEHY | | |
| | Antrim zone | | | |
| EUENGINE1 | Natural gas fired reciprocating engine | SVENGINE1 | | |
| EUENGINE2 Natural gas fired reciprocating engine | | SVENGINE2 | | |
| EUENGINE3 Natural gas fired reciprocating engine | | SVENGINE3 | | |
| EUENGINE4 Natural gas fired reciprocating engine | | SVENGINE4 | | |
| EUENGINE5 Natural gas fired reciprocating engine SVENGINE5 | | | | |
| Changes to the equipment described in this table are subject to the requirements of R336.1201, except as | | | | |
| allowed by R336.1278 to R336.1290. | | | | |

Flexible Group Identification

| Flexible Group ID | Emission Units Included in Flexible Group | Stack Identification |
|--|--|----------------------|
| FGENGINES | EUENGINE1 THROUGH EUENGINE5 | N/A |
| FGFACILITY All process equipment at the facility including | | N/A |
| | equipment covered by other permits, grand-fathered | |
| | equipment and exempt equipment. | |

The following conditions apply to: EUDEHY

Equipment

The permittee shall not operate EUDEHY unless the flash tank is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes routing the flash tank exhaust gas to the suction side of the compressor engines for destruction. [R336.1205(3), R336.1225, R336.1702(a), R336.1901, R336.1910]

The following conditions apply to: FGENGINES

Emission Limits

| | Pollutant | Equipment | Limit | Time Period | Testing/ Monitoring Method | Applicable Requirements |
|------|-----------|-----------|----------|---|----------------------------------|----------------------------|
| 2.1a | NOx | EUENGINE1 | 14.4 tpy | 12-month rolling time period as determined at the end of each calendar month. | SC 2.12 and Appendix A | R336.1205(3) |
| 2.1b | NOx | EUENGINE2 | 14.4 tpy | 12-month rolling time period as determined at the end of each calendar month. | SC 2.12 and Appendix A | R336.1205(3) |
| 2.1c | NOx | EUENGINE3 | 14.4 tpy | 12-month rolling time period as determined at the end of each calendar month. | SC 2.12 and Appendix A | R336.1205(3) |
| 2.1d | NOx | EUENGINE4 | 16.6 tpy | 12-month rolling time period as determined at the end of each calendar month. | SC 2.12 and Appendix A | R336.1205(3) |
| 2.1e | NOx | EUENGINE5 | 9.1 tpy | 12-month rolling time period as determined at the end of each calendar month. | SC 2.12 and Appendix A | R336.1205(3) |
| 2.1f | СО | EUENGINE1 | 20.0 tpy | 12-month rolling time period as determined at the end of each calendar month. | SC 2.13 and Appendix A | R336.1205(3) |
| 2.1g | СО | EUENGINE2 | 20.0 tpy | 12-month rolling time period as determined at the end of each calendar month. | SC 2.13 and Appendix A | R336.1205(3) |
| 2.1h | СО | EUENGINE3 | 20.0 tpy | 12-month rolling time period as determined at the end of each calendar month. | SC 2.13 and Appendix A | R336.1205(3) |
| 2.1i | CO | EUENGINE4 | 29.4 tpy | 12-month rolling time period as determined at the end of each calendar month. | SC 2.13 and Appendix A | R336.1205(3) |
| 2.1j | СО | EUENGINE5 | 16.2 tpy | 12-month rolling time period as determined at the end of each calendar month. | SC 2.13 and Appendix A | R336.1205(3) |

Material Usage Limits

2.2 The natural gas usage, including flash tank off gas, for FGENGINES shall not exceed 316.8 million standard cubic feet per year based on a 12-month rolling time period as determined at the end of each calendar month. [R336.1205(3)]

Process/Operational Limits

- 2.3 No later than 60 days after issuance of this permit, the permittee shall submit to the AQD District Supervisor, for review and approval, a malfunction abatement/preventative maintenance plan for FGENGINES. After approval of the malfunction abatement/preventative maintenance plan by the AQD District Supervisor, the permittee shall not operate FGENGINES unless the malfunction abatement/preventative maintenance plan, or an alternate plan approved by the AQD District Supervisor, is implemented and maintained. The plan shall incorporate procedures recommended by the equipment manufacturer as well as incorporating standard industry practices. At a minimum the plan shall include:
 - a. Identification of the equipment and, if applicable, air-cleaning device and the supervisory personnel responsible for overseeing the inspection, maintenance, and repair
 - b. Description of the items or conditions to be inspected and frequency of the inspections or repairs
 - c. Identification of the equipment and, if applicable, air-cleaning device, operating parameters that shall be monitored to detect a malfunction or failure, the normal operating range of these parameters and a description of the method of monitoring or surveillance procedures
 - d. Identification of the major replacement parts that shall be maintained in inventory for quick replacement
 - e. 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 the plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the owner or operator shall revise the plan within 45 days after such an event occurs and submit the revised plan for approval to the AQD District Supervisor. Should the AQD determine the malfunction abatement/preventative maintenance plan to be inadequate, the AQD District Supervisor may request modification of the plan to address those inadequacies. [R336.1205(3), R336.1702(a), R336.1910, R336.1911, R336.1912]

2.4 The permittee shall not operate any engine equipped with an add-on control device for more than 200 hours per engine per year without that control device consistent with the malfunction abatement/preventative maintenance plan (pursuant to SC 2.3). The 200 hours shall include times after an engine change-out occurs and general maintenance performed as allowed by the malfunction abatement/preventative maintenance plan. The hours per year limit is based on a 12-month rolling time period as determined at the end of each calendar month. [R336.1205(3), R336.1702(a)]

Equipment

2.5 The permittee shall not operate any engine that contains an add-on control device unless that device is installed, maintained, and operated in a satisfactory manner, except as specified in SC 2.4. Satisfactory operation includes performing the manufacturer's recommended maintenance on the control device and operating in conjunction with the malfunction abatement/preventative maintenance plan specified in SC 2.3. [R336.1205(3), R336.1702(a), R336.1910]

Testing

2.6 Upon request by the AQD District Supervisor, the permittee shall verify NOx and CO emission factors used to calculate emissions from one or more engine(s) in FGENGINES, by testing at owner's expense, in accordance with Department requirements. If a test has been conducted, any resulting change in an emission factor shall be implemented to calculate NOx and CO. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD. 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 within 60 days following the last date of the test. [R336.1205(3), R336.2001, R336.2003, R336.2004]

Monitoring

2.7 No later than 100 days after permit issuance, the permittee shall install, calibrate, maintain and operate in a satisfactory manner a device to monitor and record the natural gas usage for each engine included in FGENGINES on a continuous basis. [R336.1205(3)]

Recordkeeping/Reporting/Notification

- 2.8 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)]
- 2.9 The permittee shall maintain a log of all maintenance activities conducted according to the malfunction abatement/preventative maintenance plan (pursuant to SC 2.3). The permittee shall keep this log on file at a location approved by the AQD District Supervisor for a period of at least five years and make it available to the Department upon request. Except as provided in R336.1285, if any engine included in FGENGINES is replaced with an equivalent-emitting or lower-emitting engine, the permittee shall notify the AQD District Supervisor of such change-out and submit acceptable emissions data to show that the alternate engine is equivalent-emitting or lower-emitting. [R336.1205(3), R336.1702(a), R336.1911]
- 2.10 The permittee shall keep, in a satisfactory manner, for any engine equipped with an add-on control device, monthly and 12-month rolling time period records of the hours that each engine included in FGENGINES is operated without the control device. The permittee shall keep all records on file at a location approved by the AQD District Supervisor for a period of at least five years and make them available to the Department upon request. [R336.1205(3), R336.1702(a)]
- 2.11 The permittee shall keep, in a satisfactory manner, monthly fuel use records for each engine included in FGENGINES, as required by SC 2.7. The permittee shall keep all records on file at a location approved by the AQD District Supervisor for a period of at least five years and make them available to the Department upon request. [R336.1205(3)]
- 2.12 The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period NOx emission calculation records for each engine included in FGENGINES, as required by SC 2.1a, 2.1b, 2.1c, 2.1d, 2.1e and Appendix A. The permittee shall keep all records on file at a location approved by the AQD District Supervisor for a period of at least five years and make them available to the Department upon request. [R336.1205(3)]
- 2.13 The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period CO emission calculation records for each engine included in FGENGINES, as required by SC 2.1f, 2.1g, 2.1h, 2.1i, 2.1j and Appendix A. The permittee shall keep all records on file at a location approved by the AQD District Supervisor for a period of at least five years and make them available to the Department upon request. [R336.1205(3)]

Stack/Vent Restrictions

| | Stack & Vent ID | Maximum Diameter (inches) | Minimum Height Above Ground Level (feet) | Applicable Requirement | |
|-------|---|---------------------------|---|---------------------------|--|
| 2.14a | SVENGINE1 | 12 | 25 | R336.1225, 40 CFR | |
| | | | | 52.21 (c) & (d) | |
| 2.14b | SVENGINE2 | 8 | 26 | R336.1225, 40 CFR | |
| | | | | 52.21 (c) & (d) | |
| 2.14c | SVENGINE3 | 12 | 26 | R336.1225, 40 CFR | |
| | | | | 52.21 (c) & (d) | |
| 2.14d | SVENGINE4 | 10 | 25 | R336.1225, 40 CFR | |
| | | | | 52.21 (c) & (d) | |
| 2.14e | SVENGINE5 | 10 | 26 | R336.1225, 40 CFR | |
| | | | | 52.21 (c) & (d) | |
| | The exhaust gases shall be discharged unobstructed vertically upwards to the ambient air. | | | | |

The following conditions apply to: FGFACILITY

Emission Limits

| 1211113 | HISSION LIMITS | | | | | | | |
|---------|----------------|------------|--------|---|----------------------------------|----------------------------|--|--|
| | Pollutant | Equipment | Limit | Time Period | Testing/ Monitoring Method | Applicable Requirements | | |
| 3.1a | NOx | FGFACILITY | 89 tpy | 12-month rolling time period as determined at the end of each calendar month. | SC 3.5 and Appendix A | R336.1205(3) | | |
| 3.1b | СО | FGFACILITY | 89 tpy | 12-month rolling time period as determined at the end of each calendar month. | SC 3.5 and Appendix A | R336.1205(3) | | |

Material Limits

3.2 The permittee shall only burn sweet natural gas in FGFACILITY. [R336.1205(3)]

Testing

3.3 Verification of H2S and/or sulfur content of the natural gas burned in FGFACILITY may be required upon request by the AQD District Supervisor. This condition is necessary to ensure compliance with SC 3.2. [R336.1205(3)]

Recordkeeping / Reporting / Notification

- 3.4 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)]
- 3.5 The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period NOx and CO emission calculation records for FGFACILITY, as required by SC 3.1a, 3.1b and Appendix A. The permittee shall keep all records on file at a location approved by the AQD District Supervisor for a period of at least five years and make them available to the Department upon request. [R336.1205(3)]

APPENDIX A

Procedures for Calculating NOx and CO Emissions

The permittee shall demonstrate compliance with the NOx and CO emission limits by keeping track of all fuel usage for all equipment using such fuel at this facility and multiplying that fuel usage by an equipment-specific emission factor. The emission factors are typically expressed as a mass weight of pollutant per unit of fuel.

Each engine included in FGENGINES:

The permittee shall use emission factors from vendor data or from source specific testing (stack testing), as available for each engine included in FGENGINES. This also applies to engine(s) from engine change-out(s). If emission factors from other sources are used, the permittee shall obtain the approval of the AQD District Supervisor before using the emission factors to calculate emissions.

Fuel burning equipment at the facility:

The permittee shall use emission factors contained in the most recent AP-42 (Compilation of Air Pollutant Emission Factors) or the most recent FIRE (Factor Information Retrieval) database if vendor or stack testing data is not available. If emission factors from other sources are used, the permittee shall obtain the approval of the AQD District Supervisor before using the emission factors to calculate emissions.

The permittee shall document the source of each emission factor used in the calculations.