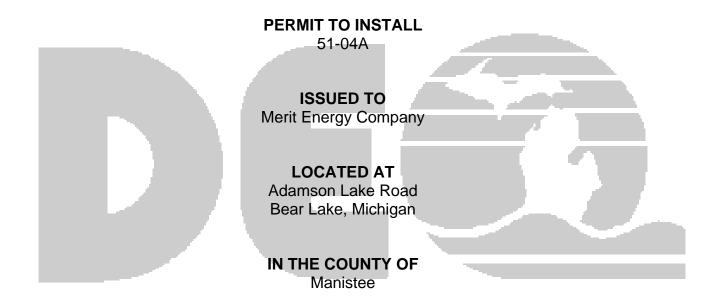
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION

June 27, 2005



STATE REGISTRATION NUMBER B9137

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: June 16, 2005			
June 27, 2005	SIGNATURE:		
DATE PERMIT VOIDED:	SIGNATURE:		
DATE PERMIT REVOKED:	SIGNATURE:		

PERMIT TO INSTALL

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Common Abbreviations / Acronyms

	Common Agranyms	HOIIS / AC	Pollutant/Measurement Abbreviations
100	Common Acronyms	D.	
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_2S	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	NOx	Oxides of Nitrogen
MAP	Malfunction Abatement Plan	PM	Particulate Matter
MDEQ	Michigan Department of Environmental Quality	PM-10	Particulate Matter less than 10 microns diameter
MIOSHA	Michigan Occupational Safety & Health Administration	pph	Pound per hour
MSDS	Material Safety Data Sheet	ppm	Parts per million
NESHAP	National Emission Standard for Hazardous Air Pollutants	ppmv	Parts per million by volume
NSPS	New Source Performance Standards	ppmw	Parts per million by weight
NSR	New Source Review	psia	Pounds per square inch absolute
PS	Performance Specification	psig	Pounds per square inch gauge
PSD	Prevention of Significant Deterioration	scf	Standard cubic feet
PTE	Permanent Total Enclosure	sec	Seconds
PTI	Permit to Install	SO_2	Sulfur Dioxide
RACT	Reasonable Available Control Technology	THC	Total Hydrocarbons
ROP	Renewable Operating Permit	tpy	Tons per year
SC	Special Condition Number	μg	Microgram
SCR	Selective Catalytic Reduction	VOC	Volatile Organic Compounds
SRN	State Registration Number	yr	Year
TAC	Toxic Air Contaminant		
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. [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 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 R336.1219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of R336.1219. The written request shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. [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.

- 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 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
EUBL32DEHY	Glycol Dehydrator	NA
EUBL32COMP1	Natural gas fired reciprocating engine	SVBL32COMP1
EUBL32COMP2	Natural gas fired reciprocating engine	SVBL32COMP2
EUBL32TANK1	Storage Tank, Fixed Roof, 1500 barrel (63,000 gallons)	NA
	capacity.	
EUBL32TANK2	Storage Tank, Fixed Roof, 1500 barrel (63,000 gallons)	NA
	capacity.	
EUBL32TANK3	Storage Tank, Fixed Roof, 1500 barrel (63,000 gallons)	NA
	capacity.	

Flexible Group Identification

Flexible Group ID	Emission Units Included in Flexible Group	Stack Identification
FGBL32COMPS	EUBL32COMP1, EUBL32COMP2	SVBL32COMP1,
		SVBL32COMP2
FGBL32TANKS	EUBL32TANK1, EUBL32TANK2, EUBL32TANK3	NA
FGFACILITY	All process equipment at the stationary source including	NA
	equipment covered by other permits, grand-fathered	
	equipment and exempt equipment.	

The following conditions apply to: EUBL32DEHY

Process/Operational Limits

1.1 The permittee shall not operate EU-CH12DEHY unless the flare, or a condenser, or other equivalent air pollution control device is installed, maintained, and operated in a satisfactory manner. [R336.1702(a)]

The following conditions apply to: FG32COMPS

Process/Operational Limits

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 FGBL32COMPS. After approval of the malfunction abatement/preventative maintenance plan by the the permittee shall not operate FGBL32COMPS unless the malfunction Department, 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. The plan shall include procedures for maintaining and operating in a satisfactory manner, FGBL32COMPS, add-on air pollution control device, or monitoring equipment during malfunction events, and a program for corrective action for such events. If the malfunction abatement 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 malfunction abatement plan within 45 days after such an event occurs and submit the revised plan for approval to the AOD District Supervisor. Should the AOD determine the malfunction abatement/preventative maintenance plan to be inadequate, the District Supervisor may request modification of the plan to address those inadequacies. [R336.1205, R336.1910, R336.1911]

Equipment

2.2 The permittee shall not operate FGBL32COMPS unless each 3-way catalyst is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes performing the manufacturer's recommended maintenance on the catalytic converter. This condition does not apply for any engine the permittee changes-out with an equivalent emitting, or less emitting, uncontrolled engine pursuant to the requirements in SC 2.5 below. [R336.1205(1)(a) and (3), R336.1225, R336.1702(a), R336.1910]

Monitoring

2.3 The permittee shall monitor in a satisfactory manner the natural gas usage rate for FGBL32COMPS on a continuous basis. [R336.1205, R336.1225, R336.1702(a), 40 CFR 52.21 (c) & (d)]

Recordkeeping/Reporting/Notification

- 2.4 The permittee shall keep, in a satisfactory manner, monthly fuel use records for FGBL32COMPS, as required by SC 2.3. All records shall be kept on file for a period of at least five years and made available to the Department upon request. [R336.1205, R336.1225, R336.1702, 40 CFR 52.21(c) and (d)]
- 2.5 The permittee shall maintain a log of all significant maintenance activities conducted and all repairs made to FGBL32COMPS and any associated air pollution control device(s). This log shall be kept on file for a period of at least five years and made available to the Department upon request. If either of FGBL32COMPS is replaced with an equivalent emitting or less emitting engine during the maintenance activities or downsizing of the facility, 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 less emitting. [R336.1205, R336.1225, R336.1910, R336.1911]

The following conditions apply to: FGBL32TANKS

Process/Operational Limits

3.1 Permittee shall not operate FGBL32TANKS unless the vapor recovery unit (VRU) is installed and operating properly if the crude oil or condensate stored in the storage tanks has a true vapor pressure greater than 1.5 psia. [R336.1604(1)(c)]

The following conditions apply to: FGFACILITY

Emission Limits

	Pollutant	Equipment	Limit	Time Period	Testing/ Monitoring Method	Applicable Requirements
4.1a	NOx	FGFACILITY	89 tpy	12-month rolling time period as determined at the end of each calendar month	SC 4.6 and Appendix A	R336.1205(3), 40 CFR 52.21(c)&(d)
4.1b	СО	FGFACILITY	89 tpy	12-month rolling time period as determined at the end of each calendar month	SC 4.5 and Appendix A	R336.1205(3), 40 CFR 52.21 (d)

Material Usage Limits

- 4.2 Permittee shall burn only sweet natural gas as fuel in FGFACILITY. [40 CFR 52.21 (c) & (d)]
- 4.3 The permittee shall not burn more than 100,000,000 standard cubic feet of natural gas in FGFACILITY per 12-month rolling time period as determined at the end of each calendar month. [R336.1205(3), 40 CFR 52.21(c) & (d)]

Recordkeeping / Reporting / Notification

- 4.4 All required calculations shall be completed in a format acceptable to the AQD District Supervisor and made 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]
- 4.5 The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period calculations of CO emission rate for FGFACILITY, as required by SC 4.1b and Appendix A. All records shall be kept on file for a period of at least five years and made available to the Department upon request. [R336.1205(3), 40 CFR 52.21(d)]
- 4.6 The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period calculations of NOx emission rate for FGFACILITY, as required by SC 4.1a and Appendix A. All records shall be kept on file for a period of at least five years and made available to the Department upon request. [R336.1205(3), 40 CFR 52.21(c)&(d)]
- 4.7 The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period records of the amount of natural gas burned for FGFACILITY. All records shall be kept on file for a period of at least five years and made available to the Department upon request. [R336.1205(3), 40 CFR 52.21(d)]

APPENDIX A Procedures for Calculating Facility NOx and CO Emissions

Compliance with the NOx and CO emission limits will be demonstrated 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.

The permittee shall only use emission factors from equipment vendor guarantees or from source specific testing (stack testing) for FGBL32COMPS. For all other fuel burning equipment 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 data is not available. If other emission source values are used, the permittee shall obtain the approval of the district supervisor before using the emission factors to calculate emissions.

The permittee shall document the source and date of origin of the emission factors used in the calculations.