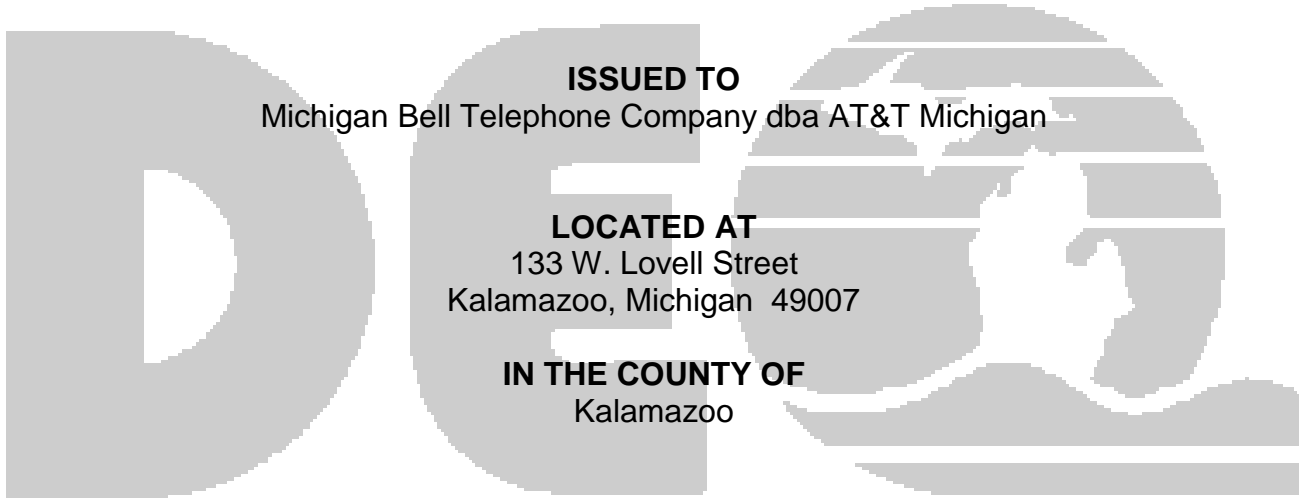


**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION**

October 14, 2008

**PERMIT TO INSTALL
No. 90-08A**



ISSUED TO
Michigan Bell Telephone Company dba AT&T Michigan

LOCATED AT
133 W. Lovell Street
Kalamazoo, Michigan 49007

IN THE COUNTY OF
Kalamazoo

STATE REGISTRATION NUMBER
N7785

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: 9/22/2008	
DATE PERMIT TO INSTALL APPROVED: 10/14/2008	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 ₂ S	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	NO _x	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 aerodynamic 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	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).

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 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 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 Identification

Emission Unit ID	Emission Unit Description	Stack Identification
EU-KLMZMIFA01	A 2,180 kW (18.8 MMBtu/hr) reciprocating engine powered electrical generator fired by diesel fuel for emergency backup power. The reciprocating engine is a Cummins model QSK60-G9 and is rated at 2,922 bhp.	SV-KLMZMIFA01
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 Identification

Flexible Group ID	Emission Units Included in Flexible Group	Stack Identification
FGFACILITY	All process equipment at the facility including equipment covered by other permits, grand-fathered equipment and exempt equipment.	

The following conditions apply to: EU-KLMZMIFA01

Emission Limits

	Pollutant	Equipment	Limit	Time Period	Testing/Monitoring Method	Applicable Requirement
1.1a	HC	EU-KLMZMIFA01	1.0 g/HP-hr	Test Method	SC 1.8	40 CFR 4205(a)
1.1b	HC	EU-KLMZMIFA01	6.44 pph	Test Method	SC 1.8	40 CFR 52.21 (c) and (d)
1.1c	CO	EU-KLMZMIFA01	8.5 g/HP-hr	Test Method	SC 1.8	40 CFR 4205(a)
1.1d	CO	EU-KLMZMIFA01	54.76 pph	Test Method	SC 1.8	40 CFR 52.21 (c) and (d)
1.1e	PM	EU-KLMZMIFA01	0.40 g/HP-hr	Test Method	SC 1.8	40 CFR 4205(a)
1.1f	PM	EU-KLMZMIFA01	2.58 pph	Test Method	SC 1.8	40 CFR 52.21 (c) and (d)
1.1g	NOx	EU-KLMZMIFA01	6.9 g/HP-hr	Test Method	SC 1.8	40 CFR 4205(a)
1.1h	NOx	EU-KLMZMIFA01	44.45 pph	Test Method	SC 1.8	40 CFR 52.21 (c) and (d)

Material Usage Limits

- 1.2 The permittee shall burn only diesel fuel in **EU-KLMZMIFA01**. (R 336.1224, R 336.1225)
- 1.3 The permittee shall not burn diesel fuel with sulfur content greater than 0.05 percent by weight in **EU-KLMZMIFA01** until October 2010. On and after October 1, 2010 the permittee shall not

burn diesel fuel with a sulfur content great than 0.0015 percent by weight on an annual average in **EU-KLMZMIFA01**. **(40 CFR 60.4207(a) and 40 CFR 60.4207(b))**

- 1.4 The maximum operating time for **EU-KLMZMIFA01** shall not exceed 500 hours per 12-month rolling time period. **(R 336.1205(1)(a))**

Process/Operational Limits

- 1.5 The permittee shall operate and maintain **EU-KLMZMIFA01** in accordance with manufacturer's recommendations for safe and proper operation to minimize emissions during periods of startup, shutdown and malfunction. **(40 CFR 60.4211(a), R 336.1912)**
- 1.6 The total capacity from **EU-KLMZMIFA01** shall not exceed 2,180 kW. **(R 336.1205(1)(a))**
- 1.7 The permittee shall only operate **EU-KLMZMIFA01** as an emergency stationary internal combustion engine, as defined in **40 CFR 60.4219**.

Testing

- 1.8 Verification of the HC, CO, NOx, and PM emission limits from **EU-KLMZMIFA01**, by testing at owner's expense, in accordance with Department requirements may be required. If required, testing must be done at a load(s) as approved by the AQD. No less than 60 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of the emission factor includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(R 336.2803, R 336.2804, 40 CFR 52.21 (c) and (d), R 336.2001, R 336.2003, R 336.2004)**
- 1.9 Verification of the fuel density, higher heating value (Btu per gallon or Btu/pound), and percent sulfur content of the No. 2 fuel oil, by testing at owner's expense, in accordance with the Department requirements may be required. If testing is required, the permittee shall use an approved EPA test method or equivalent as approved by the Air Quality Division. The permittee shall submit a complete report of the test results to the District Supervisor, AQD within 60 days following the last date of the analysis. **(R 336.1205(1)(a))**

Monitoring

- 1.10 Prior to startup of **EU KLMZMIFA01**, the permittee shall install, calibrate, maintain and operate in a satisfactory manner a device to monitor and record the total hours of operation for **EU-KLMZMIFA01** on a monthly basis. **(40 CFR 60.4209(a), R 336.1205(1)(a))**

Recordkeeping/Reporting/Notification

- 1.11 The permittee shall maintain the following records:

- Description of maintenance conducted on the engine
- Documentation from the engine manufacturer indicating that the engine operates in compliance with the emission limits specified in SC 1.1
- Generator operating hours, expressed as a rolling 12-month time period and compiled on a monthly basis.
- Distillate oil usage (gallons) expressed as a rolling 12-month time period and compiled on a monthly basis.

All records shall be kept in a manner acceptable to the district supervisor, and shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1912, R 336.1205(3), 40 CFR 60.4214(a)(2))**

1.12 The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period operating time records for **EU-KLMZMIFA01**. The records must indicate the total operating time in hours for **EU-KLMZMIFA01**. 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(1)(a), R 336.1224, R 336.1225, R 336.1702(a))**

Stack/Vent Restrictions

1.13 The exhaust gases from **EU-KLMZMIFA01** shall be discharged unobstructed vertically upwards to the ambient air. **(R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) and (d))**

	Stack & Vent ID	Maximum Diameter (inches)	Minimum Height Above Ground Level (feet)	Applicable Requirement
1.14	SV-KLMZMIFA01	20.0	81.0	40 CFR 52.21 (c) and (d)