

SUPPLEMENT to PERMIT No. 323-97A  
Eaton Corporation, Truck Components Operations  
October 3, 2001

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, altered, 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, reconstruction, relocation, or alteration 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 person to whom this permit was issued, or the designated authorized agent, shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environmental Quality, PO Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, reconstruction, relocation, or alteration 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 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 R 336.1219 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 R 336.1219. The written request shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. **[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 owner or operator of a source, process, or process equipment shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant in excess of standards for more than one hour, or of any air contaminant in excess of standards for more than two hours, as required in this rule, to the District Supervisor, Air Quality Division. The notice shall be provided no 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 District Supervisor within ten days, with the information required in this rule. **[R 336.1912]**
8. Approval of this permit does not exempt the person to whom this permit was issued from complying with any future applicable requirements which may be promulgated under Part 55 of Act 451, PA 1994 of 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 Act 451, PA 1994, 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, a person 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. Except as allowed by Rule 285 (a), (b), and (c), applicant shall not substitute any fuels, coatings, nor raw materials for those described in the application and allowed by this permit, nor make changes to the process or process equipment described in the application, without prior notification to and approval by the Air Quality Division. **[R 336.1201(1)]**
  14. The Department may require the applicant to conduct acceptable performance tests, at the applicant'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**  
 March 15, 2017

This permit covers the following emission units and flexible groups:

Flexible Group ID	Emission Unit/Equipment Description	Stack and Vent ID
FG-ALLSOURCES	All emission units at the stationary source	
FG-TESTCELLS	EU-TESTCELLSA and EU-TESTCELLSB	SV-001

Emission Unit ID	Equipment Description
EU-TESTCELLSA	Test Cell No. 2 – 525 horsepower Test Cell No. 6 – 370 horsepower Test Cell No. 8 – 575 horsepower Fire pump – 208 horsepower
EU-TESTCELLSB	Test Cell No. 7 – 750 horsepower Test Cell No. 9 – 750 horsepower

**FG-ALLSOURCES**

**Emission Limits**

	Pollutant	Limit	Time Period	Compliance Method	UAR(s)
1.	NOx	99 tons	12-month rolling total	Appendix A and special condition 5	R336.1205(3)
2.	Individual HAPs	9.0	Tons per year	Special Condition 5	R336.1205(3)
3.	Aggregated HAPs	22.5	Tons per year	Special Condition 5.	R336.1205(3)

**Equipment**

- Applicant shall maintain all applicable solvent cleaners in compliance with the provisions set forth in R336.1707.

**Recordkeeping/Reporting/Notification**

- Applicant shall record the following on a monthly basis using a method approved of by the District Supervisor:
  - The total NOx emission rate from the stationary source in tons per 12-month rolling time period.
  - The total individual hazardous air pollutant (HAP) emission rate from the stationary source in tons per 12-month rolling time period.

- The total aggregated hazardous air pollutant (HAP) emission rate from the stationary source in tons per rolling 12-month time period.

All of the above information shall be kept on file for a period of at least five years and made available to the Air Quality Division and/or United States Environmental Protection Agency staff upon request R336.1205(3).

### FG-TESTCELLS

#### Emission Limits

	Pollutant	Limit	Time Period	Compliance Method	UAR(s)
6.	NOx	97 tons	12-month rolling total	Special Condition 10.	R336.1205(3)
7.	Total Particulate	0.10 pound per 1,000 pounds of exhaust gas, corrected to 50% excess air			R336.1205(3)

#### Testing

8. Rules 1001, 1003, and 1004 - /Verification of NOx emission rates from the test cells and Fire Pump by testing, at owner's expense, in accordance with Department requirements may be required for operating approval. Verification of emission rates includes the submittal of a complete report of the test results. If a test is required, stack testing procedures and the location of stack testing ports must have prior approval by the District Supervisor, Air Quality Division, and results shall be submitted within 120 days of the written requirement for such verification.
9. Rules 1001, 1003, and 1004 - /Verification of particulate emission rates from the test cells and Fire Pump by testing, at owner's expense, in accordance with Department requirements may be required for operating approval. Verification of emission rates includes the submittal of a complete report of the test results. If a test is required, stack testing procedures and the location of stack testing ports must have prior approval by the District Supervisor, Air Quality Division, and results shall be submitted within 120 days of the written requirement for such verification.

#### Monitoring

#### Recordkeeping/Reporting/Notification

10. Applicant shall record the following on a monthly basis using a method approved of by the District Supervisor:
  - The NOx emission rate from each test cell and Fire Pump in tons per month.
  - The total NOx emission rate from the test cells and Fire Pump in tons per 12-month rolling time period.

- The total monthly operating hours of the test cells and Fire Pump. Operating hours shall be totaled in two groups: one group representing the total operating hours of test cells and fire pump with horsepower ratings greater than 600 HP and one group representing total operating hours of test cells and fire pump with horsepower ratings less than 600 HP.

All of the above information shall be kept on file for a period of at least five years and made available to the Air Quality Division and/or United States Environmental Protection Agency staff upon request R336.1205(3).

**Stack/Vent Restrictions**

	<b>Stack/Vent ID</b>	<b>Maximum Diameter (Inches)</b>	<b>Minimum Height Above Ground Level (feet)</b>	<b>UAR(s)</b>
11.	SV-001	32	47	R336.1205(3)

**Appendix A.**  
**Procedure for calculating NO<sub>x</sub> emission from Test Cells and fire pumps.**

Monthly NO<sub>x</sub> emissions from the test cells shall be based upon total horsepower-hours of operation per month. NO<sub>x</sub> emission factors from sections 3.3 and 3.4 of the latest revision of AP-42 (Compilation of Air Pollutant Emission Factors, volume I: Stationary Point and Area Sources, Fifth Edition) shall be used.

Total horsepower hours shall be calculated and recorded on a monthly basis. Whenever a test cell or pump is operated, it will be assumed to be operating at the maximum rated horsepower for the duration of the the operating cycle.

The applicant shall record the total operating hours, the total rated capacity (horsepower), the NO<sub>x</sub> emission factor(s) used, and the total monthly operating hourse for each test cell and pump.

Monthly NO<sub>x</sub> emissions will be calculated by multiplying the rated capacity of each test cell/pump times the total montly operating hours for each test cell/pump times the appropriate NO<sub>x</sub> emission factor.

Horsepower hours may be grouped or aggregated as long as the groupings have the same NO<sub>x</sub> emission factor.