

SUPPLEMENT to PERMIT No. 279-99  
Woodward FST  
Zeeland, Michigan  
April 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  
 April 3, 2001  
 (12 Special Conditions)

Emission unit identification:

| Emission Unit | Emission Unit Description   | Control Equipment    | Stack ID            |
|---------------|-----------------------------|----------------------|---------------------|
| EUPLASMA      | Plasma spray process        | Torit Dust Collector | Dust Collector Vent |
| EUFUELTEST    | Fuel test stands            | None                 | None                |
| EUANTIGALL    | Anti gall ovens             | None                 | None                |
| EUGRIND       | Grinding and metal removing | None                 | None                |
| EUOAKCLEAN    | Oakite cleaning             | None                 | None                |
| EUEVAPORATOR  | Evaporator                  | None                 | None                |
| EUBRAZING     | Brazing                     | None                 | None                |
| EUWELD        | Welding                     | None                 | None                |
| EUGA          | General assembly            | None                 | None                |
| EUQA          | Quality control             | None                 | None                |
| EUH2D2        | H2D2 pressure wash system   | None                 | None                |

Flexible Group Identification:

| Flexible Group | Emission Units Included in Flexible Group  |
|----------------|--|
| FGFACILITY     | All emission units listed above and all of the emission units exempt from permitting requirements. |

(EU = emission unit, FG = flexible group)

**EUFUELTEST**

1. The volatile organic compound (VOC) emission rate from EUFUELTEST shall not exceed 95.0 tons per year, based on a twelve month rolling time period as determined at the end of each calendar month. [R336.1205(3)]
2. The applicant shall limit the use of test fuel, minus water, after correction for waste, to 29,818 gallons based on a twelve month rolling time period as determined at the end of each calendar month. Applicant shall keep records of the amount of test fuel used per month and shall keep these records on file for a period of at least 5 years and make them available to the Department upon request. [R336.1205(3)]

**EUPLASMA**

3. The VOC emission rate from EUPLASMA shall not exceed 1,450 pounds per year based upon a twelve month rolling time period as determined at the end of each calendar month. [R336.1225, R336.1702(a), R336.1205(3)]

4. The particulate emission rate from EUPLASMA shall not exceed 0.10 pound per 1,000 pounds of exhaust gases, and shall not exceed 3.9 pounds per year. [R336.1331]
5. The applicant shall not operate EUPLASMA unless the Torit dust collector is installed and operating properly. Applicant shall follow manufacturer's specifications for proper operation and maintenance. Applicant shall keep the manufacturer's operation and maintenance manual on file and make it available to the Department upon request. [R336.1331, R336.1910]
6. The exhaust gases from EUPLASMA shall be discharged unobstructed to the ambient air from a stack with a maximum cross-sectional area of 210 square inches at an exit point not less than 10 feet above ground level. [R336.1225, R336.1331]
7. Applicant shall not use more than 2,600 pounds per year of Chromium Carbide powder in EUPLASMA. This annual usage rate is based upon a twelve month rolling time period as determined at the end of each calendar month. The applicant shall keep monthly records of the amount of powder used in EUPLASMA and these 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), R336.1225, R336.1702(a)]
8. Applicant shall not use more than 220 gallons of Anhydrol per year in EUPLASMA. This annual usage rate is based upon a twelve month rolling time period as determined at the end of each calendar month. The applicant shall keep monthly records of the amount of Anhydrol used in EUPLASMA and these 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)]

#### **FGFACILITY**

9. The hazardous air pollutant (HAP) emissions, as defined pursuant to Section 112(b) of the Clean Air Act, shall be less than 9 tons per year for any individual HAP and 22 tons per year for any combination of HAPs from FGFACILITY. The annual limit is based upon a 12-month rolling time period as determined at the end of each calendar month. [R336.1205(3)]
10. The volatile organic compound (VOC) emission rate from FGFACILITY shall not exceed 98.0 tons per year, based on a twelve month rolling time period as determined at the end of each calendar month. [R336.1205(3)]
11. The particulate matter less than 10 microns (PM10) emission rate from FGFACILITY shall not exceed 14.9 tons per year. [R336.1205(3), R336.1331]

12. Applicant shall keep records of the following:

- Monthly and 12-month rolling time period calculations of the particulate emissions
- Monthly and 12-month rolling time period calculations of the volatile organic compound emissions
- Monthly and 12-month rolling time period calculations of the hazardous air pollutant emissions
- Usage rates of materials at FGFACILITY, which will be used in determining the emission rates calculated above

These records shall be kept on file for a period of at least 5 years and made available to the Department upon request. [R336.1205(3)]