

SUPPLEMENT to PERMIT No. 377-86D  
Corsair Engineering, Inc.  
Flint, Michigan  
March 15, 2000

GENERAL CONDITIONS

1. Rule 201(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.
2. Rule 201(4) - 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, P.O. 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.
3. Rule 201(6)(a) - If this Permit to Install is issued for a process or process equipment located at a stationary source that is subject to the Renewable Operating Permit program requirements pursuant to R 336.1210, trial operation is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install and until the appropriate terms and conditions of this Permit to Install have been incorporated into the Renewable Operating Permit. Upon incorporation of the appropriate terms and conditions into the Renewable Operating Permit, this Permit to Install shall become void.
4. Rules 201(6)(b) - 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.
5. Rule 201(8) and Section 5510 of Act 451, P.A. 1994 - 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 Departments' rules or the Clean Air Act.
6. Rule 219 - 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.

7. Rule 901 - 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.
8. Rule 912 - 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 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 District Supervisor within 10 days, with the information required in this rule.
9. 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, P.A. 1994 or the Clean Air Act.
10. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
11. Operation of this equipment may be subject to other requirements of Part 55 of Act 451, P.A. 1994, and the rules promulgated thereunder.
12. Rule 301 - 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.
  - a) A 6-minute average of 20% opacity, except for one 6-minute average per hour of not more than 27% 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.
13. Rule 370 - 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).
14. Rule 285 - 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.

15. 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.

SPECIAL CONDITIONS  
March 15, 2000  
(9 Special Conditions)

1. The total volatile organic compound (VOC) emission rate from two existing spray paint booths with water wash control used for the coating of metal, welded parts, hereinafter "FGPAINTBOOTHs", shall not exceed 56.0 pounds per hour nor 70 tons per year, based on a 12-month rolling time period as determined at the end of each calendar month. **(Rules 336.1205, 336.1225, 336.1702(d) and 336.1901)**
2. The VOC content of the coatings used in FGPAINTBOOTHs shall not exceed 3.5 pounds per gallon of coating (minus water), as applied. **(Rule 336.1702(d))**
3. The applicant shall keep a monthly record, acceptable to the District Supervisor, of the following information:
  - A. Hours of operation of FGPAINTBOOTHs.
  - B. For each coating used:
    1. The amount in gallons used (with water).
    2. The VOC content in pounds per gallon (minus water and with water) as applied.
  - C. The amount in gallons and VOC content of all purge and/or cleanup solvents used and reclaimed.
  - D. VOC emissions calculations determining the total mass emissions from FGPAINTBOOTHs in tons per month; and a 12-month rolling time period mass emission at the end of each calendar month in tons per year per Appendix A

All such records shall be kept on file for a period of at least two years and made available to the Air Quality Division upon request. **(Rules 336.1205, 336.1225, 336.1702(d) and 336.1901)**
4. Applicant shall not operate FGPAINTBOOTHs unless the water wash system is installed and operating properly. **(Rules 336.1301, 336.1901 and 336.1910)**
5. The exhaust gases from FGPAINTBOOTHs shall be discharged unobstructed vertically upwards to the ambient air from two stacks, one each per booth, (SVPAINtBOOTH1 and SVPAINtBOOTH2) each with a maximum diameter of 48 inches at an exit point not less than 29 feet above ground level. **(Rules 336.1 225 and 336.1901)**
6. Applicant shall equip and maintain FGPAINTBOOTHs with air assisted airless spray guns or equivalent technology with comparable transfer efficiency. **(Rules 336.1205, 336.1702(d))**
7. The applicant shall maintain a current listing of the manufacturer's formulation data for each coating. **(Rules 336.1225, 336.1702(d) and 336.1901)**

8. The VOC content of any coating as applied and as received shall be determined using federal Reference Test Method 24. Upon prior approval of the District Supervisor, Air Quality Division, VOC content may alternatively be determined from manufacturer's formulation data. **(Rules 336.1205, 336.1225, 336.1702(d))**
9. All wash purge solvents and coatings shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state and federal rules and regulations. **(Rules 336.1205, 336.1225, 336.1702(a) and 336.1901)**

### APPENDIX A- EMISSION CALCULATIONS

The permittee shall use the following calculations in conjunction with monitoring, testing or recordkeeping data to determine compliance with the applicable requirements referenced in Table F-01.1.

For FGPAINTBOOTHs:  
 Monthly records and calculations.

	A	B	C = A x B
COATINGS	GALLONS USED	LBS OF VOC PER GALLON	LBS OF VOC

VOC EMISSIONS FROM COATINGS, **D** = SUM OF C →

TOTAL VOC EMISSIONS FROM COATINGS APPLIED, TONS, **E** = D / 2000 →

12 MONTH ROLLING PERIOD, TONS, = TOTAL OF PREVIOUS 11 MONTHS + E = **F** →

MONTHLY HOURS OF OPERATION, **G** →

POUNDS VOC EMITTED PER HOUR, = D / G = **H** →