

SUPPLEMENT to PERMIT No. 639-92C
Jabil Circuit Inc
Auburn Hills, Michigan
January 16, 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, 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. [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, P.A. 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 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. [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, P.A. 1994 of the 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, P.A. 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% 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.
 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
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(6 Special Conditions)

1. The particulate emission rate from the IR solder reflow system in the circuit board assembly/manufacturing processes including 15 wave solder machines, 18 screen printers and 20 IR reflow ovens, hereinafter Flexible Group "FG-Circuit Board mfg", shall not exceed 0.014 pound per 1,000 pounds of exhaust gases. (R 336. 1205, R 336. 1331)
2. The volatile organic compounds (VOC) emission rate from the FG-Circuit Board mfg shall not exceed 11.0 pounds per hour nor 39.6 tons per year, based upon a 12-month rolling time period as determined at the end of each calendar month. Monthly records of actual VOC emissions shall be kept on file for a period of five years and made available to the Air Quality Division upon request. (R 336. 1205, R 336. 1225, R 336. 1702(a), R 336. 1901)
3. Monthly usage of materials on the lines shall not exceed the quantities identified in the following table:

Material	Portion of the Lines	Amount
Solder Paste	IR solder reflow systems	649,680 grams
Flux	Wave solder machines	300 gallons
Flux Thinner	Wave solder machines	700 gallons

(R 336. 1205, R 336. 1225, R 336. 1702(a), R 336. 1901)

4. The exhaust gases from the FG-Circuit Board mfg shall be discharged unobstructed vertically upwards to the ambient air from 16 stacks each with a maximum diameter of 36 inches at an exit point not less than 30 feet above ground level. (R 336. 1225, R 336. 1901)
5. The hazardous air pollutant (HAP) emissions, as defined pursuant to Section 112(b) of the Clean Air Act, shall be less than 8.9 tons per year for any individual HAP and 22.49 tons per year for any combination of HAPs at this stationary source. The annual limit shall be based upon a 12-month rolling time period as determined at the end of each calendar month. Monthly records of HAPs emissions shall be kept on file for a period of five years and made available to the Air Quality Division upon request. (R 336. 1205(3)).
6. Actual monthly usage rate and reclamation records of the solder paste (grams per month), flux (gallons per month), and flux thinner (gallons per month) shall be kept on file for a period of at least five years and made available to the Air Quality Division upon request. (R 336. 1205, R 336. 1901)