

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT

PERMITTEE

Plexus Corporation
Attn: James Williams
590 Enterprise Drive, P.O. Box 529
Neenah, Wisconsin 54957-0529

Application No.: 04050024

I.D. No.: 097418AAP

Applicant's Designation:

Date Received: May 10, 2004

Subject: Circuit Board Assembly Plant

Date Issued:

Expiration Date:

Location: 2400 Millbrook Drive, Buffalo Grove

This permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of eight surface-mount lines, six wave-soldering machines with spray fluxers, one manual and two automatic conformal coaters, manual boards clean up operations, and one batch circuit board washer pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of volatile organic materials (VOM) from the source to less than major source thresholds (i.e., 25 tons/year, 10 tons/year for a single hazardous air pollutant (HAP) and 25 tons/year for totalled HAP). As a result, the source is excluded from the requirements to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permits for this location.
2. The batch circuit board washer shall be operated according to the operating and equipment requirements of 35 Ill. Adm. Code 218.182. This permit is issued based upon the washer being exempt from material requirements of Section 218.182(c) per exemption provision of 218.182(f).
3. The emissions of HAPs as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish by rule which would require the Permittee to obtain a CAAPP permit from the Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from the Illinois EPA.

4. Plant-wide emissions of volatile organic materials (VOM) shall not exceed 2.0 ton/mo and 20.0 tons/yr.

The VOM/HAP emissions shall be determined from the following equation:

$$E = \sum (M_i \times V_i), \quad \text{Where:}$$

E - VOM/HAP emissions (tons)

P_i - Material i usage (tons)

V_i - VOM/HAP content of the raw materials used (wt. fraction)

Compliance with annual limits shall be determined from a running total of 12 months of data.

5. This permit is issued based on negligible emissions of particulate matter from three conformal coaters. For this purpose, emissions from each emission source shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.
6. The Permittee shall maintain monthly records of the following items:
 - a. Names and amounts of raw material used at the facility (tons/mo, tons/yr);
 - b. VOM and HAP content of raw materials used (wt. %);
 - c. Emission calculations (tons/mo, tons/yr).
7. All records and logs required by this permit shall be completed by the last day of the month following the reported month and retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to the Illinois EPA or USEPA request for records during the course of a source inspection.
8. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
9. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, IL 62794-9276

and one (1) copy shall be sent to the Agency's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control - Regional Office
9511 West Harrison
Des Plaines, Illinois 60016

If you have any questions on this permit, please call Valeriy Brodsky at (217)782-2113.

Donald E. Sutton, P.E.
Manager of Permit Section
Division of Air Pollution Control

DES:VJB

cc: Illinois EPA, FOS Region 1
Lotus Notes

Attachment A - Emissions Summary

This attachment provides a summary of the maximum emission from the Circuit Board Assembly Plant operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are below the levels, e.g., 25 tons per year for VOM, 10 tons/year for a single HAP and 25 tons/year for totalled HAP at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that material is handled, and control measures are more effective than required in this permit.

E M I S S I O N S (ton/yr)

Emission Units	VOM	PM	Single HAP	Total HAP
Plant-wide total	20.0	1.3	<10	<25

DES:VJB