State of Ohio Environmental Protection Agency

P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43266-0149
(614) 644-3020
FAX (614) 644-2329

R001
0387000040

George V. Voinovich
Governor

Re: Permit to Install
Wood County
Application No: 03-8003

CERTIFIED MAIL

September 8, 1994

LIBBEY-OWENS-FORD COMPANY
JOHN R. KEIL
811 MADISON AVE., PO BOX 799
TOLEDO, OH 43697-0799

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Board of Review pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Board of Review within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Board. An appeal may be filed with the Environmental Board of Review at the following address:

Environmental Board of Review
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo

Thomas G. Rigo, Manager
Field Operations & Permit Section
Division of Air Pollution Control

cc: US EPA
NORTHWEST DISTRICT OFFICE, DAPC

Source # requested 11/16/94

Printed on recycled paper

State of Ohio Environmental Protection Agency

Permit to Install
Terms and Conditions

Application No. 03-8003
APS Premise No. 0387000040
Permit Fee: $400.00

Name of Facility: LIBBEY-OWENS-FORD COMPANY

Person to Contact: JOHN R. KEIL

Address: 811 MADISON AVE., PO BOX 799
TOLEDO, OH 43697-0799

Location of proposed source(s): 1701 E. BROADWAY, PLANT #21
NORTHWOOD, OHIO

Description of proposed source(s):
GLASS SCREEN PRINTER WITH DRYING OVEN.

Date of Issuance: September 8, 1994

Effective Date: September 8, 1994

The above named entity is hereby granted a permit to install for the above described source(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described source(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Donald R Schregardus

Director

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES(S)

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to

the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 15 days of the effective date of this permit to install.

PUBLIC DISCLOSURE

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

BEST AVAILABLE TECHNOLOGY

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be made at least 90 days prior to start-up of the source.

NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies.

AIR EMISSION SUMMARY

The air contaminant sources listed below comprise the Permit to Install for LIBBEY-OWENS-FORD COMPANY located in Wood County. The sources listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

Ohio EPA Source Number	Source Identification Description	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage Requirements
R001	Glass screen printer w/ drying oven	The use of non-photo-chemically reactive cleanup material and compliance w/ the terms and conditions of this permit	3745-31-05 3745-21-07 (G)(2)	Coating VOC 8 lbs/hr; 40 lbs/day Total VOC 47.3 lbs/day (and AST&C's)

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant	Tons/Year
VOC	8.4 (Including cleanup)

RECORD(S) RETENTION AND AVAILABILITY

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to OEPA Northwest District Office - DAPC, 347 North Dunbridge Road, P.O. Box 466, Bowling Green, Ohio 43402.

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the OEPA Northwest District Office - DAPC, 347 North Dunbridge Road, P.O. Box 466, Bowling Green, Ohio 43402.

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

1. Coating usage in Source No. R001 shall be limited to 3.86 gallons per hour (8 lbs/hr), with a maximum VOC content of 2.07 pounds per gallon, not to exceed 19.3 gallons per day (40 lbs/day).

2. Cleanup material usage in Source R001 shall be limited to 1.9 gallons per day with a maximum VOC content of 3.81 lbs per gallon (7.32 lbs/day). Cleanup material shall not be photochemically reactive.

3. Libbey-Owens-Ford Company shall maintain daily records for Source No. R001 including the following information:

   A. company identification of the coating/cleanup material;

   B. the VOC content of the coating/cleanup material;

   C. determination of whether or not material is photochemically reactive;

   D. the amount of coating/cleanup employed (gallons/day);

   E. the number of hours the source was in operation;

   F. the emission of VOC (pounds/day) [B*D]; and

   G. the emissions of VOC (pounds/hour) [F/E].

   The VOC emissions from the coating shall not exceed 8.0 pounds/hour and 40.0 pounds/day.

   Total VOC emissions shall not exceed 47.3 pounds/day.

   These daily records and any coating analysis computations shall be retained in the company's files for a period of not less than three years and shall be made available to the Ohio EPA upon request for review during normal business hours.

4. The company shall immediately notify the Ohio EPA, Northwest District Office, of any exceedances of the usage or emission limitations of this permit.

   The company shall submit an annual report documenting each exceedance and including the following additional information for each:

   A. the cause of the excursion; and

   B. the steps that have been and/or that will be taken to correct the violation and to prevent further occurrences.

   The report shall be due by January 15 of each year and shall cover the previous 12 month period. If there have been no exceedances, then a report stating that fact must still be submitted.

5. The drying oven shall not be operated at temperatures which heat cure or polymerize the coating material.

6. All reports, notifications, etc., regulated by the above terms and conditions shall be submitted to or made to the Ohio Environmental Protection Agency, Northwest District Office, 347 North Dunbridge Road, Bowling Green, Ohio 43402.