

Pollution Prevention Information Clearinghouse (PPIC)

U.S. Environmental Protection Agency 401 M Street, SW (7407)

Reference & Referral 202-260-1023

Washington, DC 20460

Fax

(Operated by Vistronix, Inc.) 202-260-4659

E-mail Address ppic@epa.gov

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DESIGN FOR THE ENVIRONMENT GENERAL DEE INFORMATION

EPA/744/R-00012

Integrated Environmental Management Systems Company Manual Template for Small Business

(57 pp)

December 2000

This manual is designed to show how Design for the Environment (DfE) technical work can be used to support development of an Integrated Environmental Management System (IEMS). It allows companies to: maintain and improve their IEMSs, improve system implementation and systematization across other company management systems.

DESIGN FOR THE ENVIRONMENT PRINTED WIRING BOARDS

EPA/744/R-00013A Printed Wiring Board Surface Finishes: Draft

Cleaner Technologies Substitutes Assess

(472 pp) December 2000

EPA/744/R-00013B Printed Wiring Board Surface Finishes: Draft

Cleaner Technologies Substitutes Assess

(417 pp) December 2000

Volume 1 presents a detailed technical analysis of the public health and environmental risk, performance, cost and natural resource for use for six surface finish technologies that can be used in printed wiring board manufacturing. The standard tin-lead "hot air solder leveling" process and five lead-free alternatives were evaluated. Volume 2 contains the appendices cited in Volume 1, including raw data tables.

Available online at http://www.epa.gov/opptintr/dfe/pwb/ctsasurf/pwb-pub.htm