

United States
Environmental Protection Agency

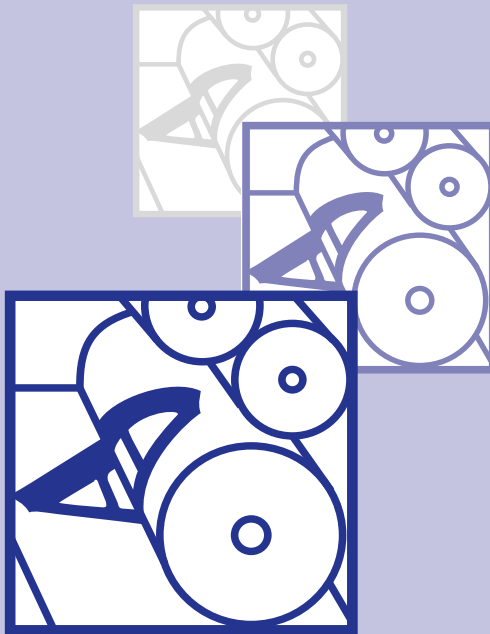
EPA 744-F-96-022
March 1997

Prevention, Pesticides and Toxic Substances (7406)



LITHOGRAPHY PROJECT

Publications List



What Is the Design for the Environment (DfE) Lithography Project?



The Design for the Environment (DfE) Lithography Project is a voluntary effort between the lithographic printing industry and the U.S. Environmental Protection Agency (EPA). The goal of the Project is to provide lithographers with information that can help them design an operation that is more environmentally sound, safer for workers, and more cost effective. The partners of the DfE Lithography Project evaluated 37 different commercially available products, focusing on blanket washes. Information was gathered on the performance, cost, and health and environmental risk tradeoffs of each substitute blanket wash. The partners of the Project provide this information to help printers make more informed decisions about the products they use in their shops.

Partners in the Design for the Environment (DfE) Lithography Project: Printing Industries of America, Graphic Arts Technical Foundation, the Environmental Conservation Board of the Graphic Communications Industry, The University of Tennessee, and individual printers and suppliers.

DfE Lithography Project Fact Sheet: Blanket Wash Solutions for Small Printers

This introduction to the DfE Lithography Project provides a brief history of how and why the Project was started. It also discusses the three main Project areas: technical studies, implementation, and outreach.

EPA 744-F-95-005, 2 pages, September 1995

Cleaner Technologies Substitutes Assessment (CTSA): Lithographic Blanket Washes

The CTSA is the complete technical report of the Lithography Project. It contains detailed results of the performance demonstrations, cost analyses, lab tests, and risk characterizations of each of the substitute blanket washes. It also discusses the Project background, and presents the methodology used for evaluating the washes in each of the above categories.

EPA-744-R-95-008, 447 pages, July 1996

DfE Lithography Project CTSA Booklet: Solutions for Lithographic Printers: An Evaluation of Substitute Blanket Washes

Recognizing that not all printers have the time to read the larger, more detailed CTSA report, this booklet condenses the information found in the CTSA to answer printers' most immediate questions, such as: How do blanket washes affect worker health and safety? How did the different blanket washes perform? What are the environmental risks associated with each wash? What are the costs associated with each? What steps can a printer take to test a new wash?

EPA 744-F-96-009, Spring 1997

DfE Lithography Project Case Study #1: Managing Solvents and Wipes

This case study tells how one company successfully improved its environmental and economic performance by using alternative press cleaners and reducing the overall use of press cleaners in its facility. The technical and procedural changes that this printer adopted are described.

EPA 744-K-93-001, 4 pages, October 1995

DfE Lithography Case Study #2: Pollution Prevention at Custom Print

One printing facility's experience shows how a thorough step-by-step review of all processes in a print shop can uncover many ways to prevent pollution. Custom Print found opportunities in inventory control, in consolidation of chemicals, and even in changes to fixed costs such as air conditioning and ventilation.

EPA 744-F-96-001, 4 pages, August 1996

DfE Lithography Project Bulletin #1: Substitute Blanket Washes: Making Them Work

Although printers experience many benefits from using substitute blanket washes, these washes may require different application methods than traditional blanket washes. This bulletin shares the valuable knowledge of the printers who used substitute washes during the Lithography Project. These tips and hints can help any printer get the most out of a substitute blanket wash.

EPA 744-F-96-002, 4 pages, August 1996

DfE Lithography Project Bulletin #2: Workplace Practices Make the Difference

DfE asked 206 lithographers to share their best methods for reducing the use of chemicals in their facilities. This bulletin describes the most popular of these pollution prevention practices. Implementing these practices can reduce worker exposure to harmful chemicals, minimize pollution, and improve productivity.

EPA 744-F-96-008, 4 pages, August 1996

DfE Lithography Project Bulletin #3: Vegetable Ester Blanket Washes

Blanket washes made of vegetable esters were one category of wash tested in the Lithography Project. This bulletin discusses the potential performance, cost, and health and environmental benefits of using vegetable ester blanket washes.

EPA 744-F-96-014, 4 pages, October 1996

DfE Lithography Project Bulletin #4: A Worksheet to Help You Choose a Better Wash

This bulletin contains a worksheet that provides printers with a helpful step-by-step guide to comparing different blanket wash formulations. Each wash is scored in areas such as performance, purchase price, percentage of volatile organic compounds (VOCs), and flammability. The bulletin also discusses the “hidden costs” of using a blanket wash and how printers can cut expenses by becoming aware of these. Finally, this bulletin provides tips on testing a new wash.

EPA 744-F-96-015, 6 pages, October 1996

Printing Industry and Use Cluster Profile

This resource provides an in-depth profile of the United States printing industry. Demographic information is given for the entire industry, as well as for the specific sectors: Screen Printing, Lithography, Gravure, Flexography, and Letterpress. The Profile also presents detailed information about the processes and technological trends involved in each sector.

EPA 744-R-94-003, 183 pages, June 1994

Federal Environmental Regulations Potentially Affecting the Commercial Printing Industry

This helpful report summarizes the requirements of Federal laws that apply to the commercial printing industry, such as the Clean Air Act; the Clean Water Act; the Resource Conservation and Recovery Act; the Comprehensive Environmental Response, Compensation and Liability Act (Superfund); the Community Right-to-Know Act; and the Toxic Substances Control Act.

EPA 744-B-94-001, 71 pages, March 1994

Summary of Focus Group Discussions with Screen Printers and Lithographers for the Design for the Environment Printing Project

EPA conducted eight focus groups with screen printers and lithographers to discuss the DfE Screen Printing and Lithography Projects. This report presents the focus group methodology and summarizes the meetings. Sources of environmental information that may be most useful to printers are also listed.

EPA 742-R-94-004, 89 pages, June 1994

Environmental Cost Accounting and Capital Budgeting: Videotape Seminar and Handouts

This video seminar discusses the elements of environmental cost accounting and Total Cost Assessment (TCA). TCA allows printers and others to thoroughly assess the financial implications of environmental projects. In addition, actual applications of TCA are discussed.

EPA 744-B-96-001, 245 minutes (plus 134 pages of handouts), July 1995

Environmental Cost Accounting and Capital Budgeting for Small to Midsized Manufacturers: Videotape Seminar and Handouts

This video seminar discusses the connection between environmental cost accounting and investment decision-making. It introduces Total Cost Assessment (TCA), an approach to capital budgeting for environmental projects that improves on more conventional cost accounting practices, and features company case studies that show how firms have benefited from taking a TCA approach.

EPA 744-B-96-002, 165 minutes (plus 78 pages of handouts), December 1995

*H*ow to order your free DfE Lithography Project Materials

Materials in this booklet can be ordered free of charge from EPA's Pollution Prevention Information Clearinghouse (PPIC). You should receive your materials within about 2 weeks from the day we receive your order.

To order by mail:

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For more information about the Design for the Environment Program, to view some of these documents online, or to learn about other DfE industry projects, please visit the DfE Homepage on the WorldWideWeb:

<http://www.epa.gov/dfc>

Please send me the following materials (specify the number of each and please limit your order to 15 documents total):

- _____ DfE Lithography Project Fact Sheet: EPA 744-F-95-005
- _____ CTSA: Lithographic Blanket Washes (447 pages): EPA-744-R-95-008
- _____ CTSA Booklet: Solutions for Lithographic Printers: EPA 744-F-96-009
- _____ DfE Lithography Project Case Study #1: EPA 744-K-93-001
- _____ DfE Lithography Project Case Study #2: EPA 744-F-96-001
- _____ DfE Lithography Project Bulletin #1: EPA 744-F-96-002
- _____ DfE Lithography Project Bulletin #2: EPA 744-F-96-008
- _____ DfE Lithography Project Bulletin #3: EPA 744-F-96-014
- _____ DfE Lithography Project Bulletin #4: EPA 744-F-96-015
- _____ Printing Industry & Use Cluster Profile: EPA 744-R-94-003
- _____ Federal Environmental Regulations—Commercial Printing: EPA 744-B-94-001
- _____ DfE Focus Group Discussions—Printing Industry: EPA 742-R-94-004
- _____ Environmental Cost Accounting Video (245 min.): EPA 744-B-96-001
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