

LESSONS LEARNED FROM THE HUD SOLAR DEMONSTRATION PROGRAM

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INTRODUCTION

Under the authorization of the Solar Heating and Cooling Demonstration Act of 1974 (P.L.93-409), the Department of Housing and Urban Development (HUD) conducted a residential solar heating and cooling demonstration program as part of the national solar energy program from 1975 to 1982. The original intent of the program was to help bring the nascent solar industry to the point that it could economically serve the housing industry with efficient and cost-effective heating and cooling equipment.

The HUD program had four main elements: demonstrations of solar systems in residences, the development of standards for the industry, studies of market constraints and ways to overcome them, and establishment of a national information program on solar heating and cooling. This discussion is concerned only with the demonstration activities and findings.

DEMONSTRATION PROGRAM

The demonstration program had three objectives: to involve homebuilders early in working with solar energy, to obtain information on performance and market acceptance, and to provide examples of solar installations for the public to see. Projects were selected competitively. In eight national solicitations, HUD evaluated 3,837 applications, awarded 943 grants (including some which were for design-only projects), and watched 497 projects get built. In all, 1,255 solar systems provided hot water, space heating, or space cooling to 10,098 dwelling units. The first awards, in 1976, were

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EPA National Publications Catalog United States. Environmental Protection Agency, 2001 **Catalog of Superfund Program Information Products 1994** United States. Environmental Protection Agency. Office of Emergency and Remedial Response, 1994 **Catalog of Superfund program information products** United States. Environmental Protection Agency. Office of Emergency and Remedial Response, 1994 **Unit Operations in Environmental Engineering** Robert Noyes, 1994-12-31 This book discusses the practical aspects of environmental technology organized into eight chapters relating to unit operations as follows 1 Biological Technology 2 Chemical Technology 3 Containment and Barrier Technology 4 Immobilization Technology 5 Membrane Technology 6 Physical Technology 7 Radiation and Electrical Technology 8 Thermal Destruction Technology Traditional technologies have been included as well as those that can be considered innovative and emerging The traditional approaches have been the most successful as contractors are careful about bidding on some of the newer technologies However as regulatory requirements increase markets will open for the innovative and emerging processes There will be increasing pressure to break down complex waste streams with each subsequent stream demanding separate treatment In addition a number of technologies have been developed by combining processes directly or in a treatment train and these developments are expected to assume increasing importance However such concerns as uncertainties due to liability regulatory approval price competition and client approval have limited the application of some of these newer technologies **Analytical Chemistry of PCBs, Second Edition** Mitchell D. Erickson, 1997-01-24 This updated and expanded Second Edition of Dr Erickson s Analytical Chemistry of PCBs appears a decade after the first and is completely revised and updated The changes from the First Edition reflect the significant growth in the area and a growing appreciation of the importance of PCB analysis to our culture This book is a comprehensive review of the analytical chemistry of PCBs It is part history part annotated bibliography part comparison and part guidance Featuring a new chapter on analyst customer interactions and several new appendices the Second Edition is an invaluable resource for both chemists with no experience in PCB analysis and seasoned PCB researchers All topics have been more thoroughly treated and updated in this new edition to reflect advances made in the last decade especially **EPA Publications Bibliography Quarterly Abstract Bulletin** United States. Environmental Protection Agency, 1991-10 *Compendium of Superfund Program Publications, 1992, 1991* **Monthly Catalogue, United States Public Documents** , 1994-11 *Monthly Catalog of United States Government Publications* , 1994 **Remediation Technologies Screening Matrix and Reference Guide, Version I.** , 1993 **EPA 200-B.** , 1995-06 **Remediation Case Studies** , 1995 **EPA-542/B.** , **Emerging Separation Technologies for Metals and Fuels** V. I. Lakshmanan, Renato G. Bautista, P. Somasundaran, 1993 The mining and metallurgical industries need to be at the forefront of the developments in the separation technologies of metals and fuels This text examines the science technology and applications of these separation processes **Summary of Demonstration**

Cities Act of 1966 (H.R. 12341), Urban Development Act (H.R. 12946), Housing and Urban Development Amendments of 1966 (H.R. 13064), and Group Practice Facilities Bill (H.R. 9256). United States. Congress. House. Committee on Banking and Currency. Subcommittee on Housing,1966 **Cleaning Up the Nation's Waste Sites** ,1993-11

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