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Survey of Risk Reduction and Pollution Prevention Practices in the Rhode Island Automotive Refinishing Industry

In 1995 a survey of pollution prevention, environmental control, and occupational health and safety practices was conducted in the Rhode Island automotive refinishing industry sector. In cooperation with product partners, the Rhode Island Department of Environmental Management developed a multidimensional survey instrument to identify risk reduction opportunities. Investigation sought to characterize the range of environmental and industrial hygiene controls employed in Rhode Island facilities for the purposes of focusing state technical and compliance assistance efforts. Data were collected on a diverse range of subject areas including work force demographics, source reduction, potential health hazards, worker protection and safety, solid and hazardous waste management, and air pollution control. Nearly one-half of the shops employ three or fewer people, and in many cases, spray patterns double as body repair techniques thereby increasing their potential exposure to workplace contaminants. While nearly all of the shops reported that they use spray painting booths, only 38% use booths of the most effective downdraft design. Based on the self-reported data, twenty per cent of shops at pollution control regulations regarding the use of compliant coatings, employed a modified spray gun chamber, and high-pressure, low-pressure, ultra-pure appear to be effective at reducing workplace based source reduction. A range of risk reduction opportunities were identified as legal material changes, technology changes, and improved working practices. Better methods of risk communication, a professional licensing requirement, and targeted testing, compliance, and technical assistance would help to achieve greater levels of risk reduction in the nation's high-volume industry.

Keywords: automobile refinishing, environmental health, occupational health and safety, general protection, pollution prevention, risk reduction

An estimated 60,000 automotive refinishing facilities employing "two and two" technology, health,^{1,2,3} engineering, some 100,000 people (workers) (estimated as 7.4 employees per body shop times 13,000 body shops)⁴ are located within the United States. Environmental and occupational health studies indicate a need for improved worker protection and risk reduction strategies in the high low and^{5,6} 600 million⁷ workers (workers estimated as \$13.5 billion per shop, 1995 average annual sales volume) (over 63,000 body shops). Research

conducted by the National Institute for Occupational Safety and Health (NIOSH), the Environmental Protection Agency (EPA), and the National Agency for Research on Cancer (NARC), and existing risk material regulations, for example, spray control systems may be the primary for an more effort to human health including cancer, asthma, kidney disease, and related serious eye and other effects among the occupationally exposed. In addition, the U.S. Environmental Protection Agency (EPA) estimates⁸ that up to 100,000 tons of volatile organic compounds (VOCs) are released annually from automotive refinishing

operations. Vaporizer studies and VOCs exist in the presence of sunlight to form ground-level ozone, exposure to which can cause a range of adverse respiratory system effects including decreased lung function, increased susceptibility to respiratory infection, air way inflammation, and increased lung cancer^{9,10}.

While a broad range of pollution prevention and engineering control technologies exist, the application of these technologies is thought to vary considerably because it is dependent on a complex set of variables that include government resources, demographics, equipment and material costs, owner/operator training and education, and facility throughput. In this study, detailed survey data were collected from 126 of the 600 auto-focused businesses in finishing facilities. The project team sought to characterize the range of pollution prevention, environmental control, and worker protection health and safety practices employed in Rhode Island enterprises for the purposes of identifying risk reduction opportunities. The survey instrument and test output is that is current document subject areas including source reduction, physical and health hazards, worker exposure, protection and safety, solid and hazardous waste management, and air pollution control. This is the first survey known to explore the interrelationship among risk reduction, pollution prevention, and occupational health practices in a major U.S. industry sector.

DATA AND METHODS

A 124 questions, 8 page Information Questionnaire forms, was used in this study. Questions were formulated in consultation with air quality experts and state health (Industrial Hygiene) and various control officials around industrial document^{11,12} were the results of the survey.

The Rhode Island Department of Business Regulation's (DBR) 1995 database of 600 licensed auto body shops was used as the survey selection. In total, 59% of the 600 auto-focused facilities were selected using stratified random (27 of the larger shops were identified by industry experts for inclusion in the study; and one dozen (14) small to medium sized shops employing techniques. The survey was administered by the Rhode Island Department of Environmental Management's environmental pollution prevention technical assistance program. In July 1996, 260 questionnaires were mailed out with 30 working days provided to complete the survey. Follow-up telephone calls were made to those shops that had either provided incomplete data or had not responded at all. 43 of the firms were also contacted to help further strengthen completion of the questionnaire. A response rate of 79% was obtained (the year after response rate occurred for businesses that had either closed or moved and left no forwarding address). Of the 124 questionnaires, 12 indicated that refinishing work was contracted out from the company (9%); respondents, 100 companies (81% of the entire Rhode Island focused automotive refinishing sector) were selected for analysis. Management fees and business credits for influence in the study sample may have resulted in those selected results viewed as representative of best management practices. A statistical database computer program was used for data management and analysis. In total, 100 individual facilities were created based on the 124 questions contained in the survey form. More than 10,000 data sets were entered for completion and entered into the program. Data 100 individual data sets were and greater (used to set limits on data, and others serving to standardize questions) were examined. The results of these analyses are the subject of this article.

Industry and Shop Type Profiles

Industry Description

According to the Rhode Island (RI) and Department of Environmental Management, 600 focused auto body shops exist in estimated 100,000 tons of VOCs annually based on average data the Rhode Island automotive refinishing industry can be characterized as seven of (1) shop size, i.e., square footage occupied; (2) number of employees; (3) annual sales; (4) annual production; (5) services or operations performed; and (6) equipment (see Table 1 and Figure 1a).

Table 1 presents a statistical summary of business and operational data for the sample population. The data show that the average Rhode Island shop has four to five bays for 13.4 ± 6.0 (1 range 1 to 40) work and is located in a building that is owned (66%) rather than leased. Most shops (82%) engage in two principal operations: spray painting, grinding, welding, and holding. About one-third of the companies reported sales and that they also perform repairs, refinishes, alterations, body, and/or metal repair. Most of the respondents were non-/not on technology that also engaged in at least automotive refinishing.

On average, auto body shops process 7 ± 6.0 h automobiles per week in an area of about 10,000 ± 10,000 sq ft. The statistical frequency distribution data (Table 1) show that more than three quarters of the sample population process 10 or more automobiles per week.

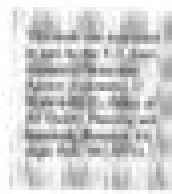
Shop Type Profile

The average Rhode Island auto body shop employs 5 ± 10.4 people (range 1 to 55). Table 1 shows that 50% estimate the Rhode Island industry sector (Table 1) and, therefore, represent the distribution in general risk of exposure to toxic and/or other adverse materials. Nearly one-half of all body shops employ three or fewer workers, whereas three quarters (75%) employ six or fewer (see Figure 1).

Demographic data on businesses were collected to assess potential language barriers that might be encountered when offering technical and compliance assistance. Of the 100 facilities employed by the 100 companies surveyed, 42 (42%) were from 4 ethnic groups, i.e., 23 were Hispanic, 18 were African American, 3 were American Indian, and 1 was of Asian descent. Of the American Indian population was employed in body repair techniques in two (two) companies. Most Hispanic and African American were employed in body repair techniques than in spray painting. The two non-white firms were employed in professional spray painting. There was only one minority female employed by the companies sampled. Of the 127 female employed in this industry, of that 3 were office workers.

Whether race was estimated, and the least Rhode Island for ethnicity American origin: those that 20 people or in minority language. Unlike several European countries, the majority of people in Rhode Island are required to be citizens, give a test, and obtain a license¹³—the United States does not have certification or licensing requirements to place the professionals engaged in the practice of automotive refinishing. However, voluntary certification/training programs exist in AER (American Association of Automotive Service Technicians or Collision Repair and Refinishing) and I Chai (Asian Industry Conference on Automotive Repair) exist in the United States.

Only 1/3 (33) training courses are offered for a broad range of auto body repair and refinishing operations, i.e., local body shop (100%) training, classroom (including a health and safety course) as "Workshop Education Materials" (AER's performance based



Automotive Refinishing Industry Guide To Pollution Prevention

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Guides to Pollution Prevention ,1991 **The Automotive Refinishing Industry** DIANE Publishing Company,1996-07
Provides many options for the reduction of waste produced by the automotive refinishing industry Emphasizes and explains the importance of source reduction and recycling in the industry as a means of waste minimization Provides case studies from several shops in California Describes the industry and its waste generation problem Case studies diagrams and worksheets *Guides to Pollution Prevention* Risk Reduction Engineering Laboratory (U.S.),1992 **Guide to Pollution Prevention for the Auto Repair and Autobody Repair Industry** ,1995 *Guides Pollution Prevention* Risk Education Engineering Laboratory,1991 **The Metal Finishing Industry** DIANE Publishing Company,1975-07 **Storm Water Management for Industrial Activities Developing Pollution Prevention Plans and Best Management Practices** Washington Us Epa,1993-02-18 This manual provides industrial facilities with comprehensive guidance on the development of storm water pollution prevention plans and the identification of appropriate Best Management Practices BMPs The guide presents expert technical assistance for any facility subject to pollution prevention requirements established under NPDES permits for storm water point source discharges Step by step guidelines and accompanying worksheets will walk you through the process of developing and implementing a pollution prevention plan Specific EPA General Permit pollution prevention requirements are highlighted in shaded boxes throughout the manual for easy reference This approach allows you to complete your plan quickly and efficiently Storm Water Management for Industrial Activities will soon be dog eared with use by plant operators managers and supervisors Consultants and regulators will also find themselves constantly referring to this essential guide **The Mechanical Equipment Repair Industry (Machine Shops)** DIANE Publishing Company,1996-07 Provides valuable information about waste minimization and the mechanical equipment repair industry Uses charts and diagrams as an effective means of explaining the pollution process Case studies of successful waste minimization explained Addresses for additional sources of information are given *EPA 200-B.* ,1996-10 **EPA National Publications Catalog** United States. Environmental Protection Agency,1996 Federal Register ,1995 **Practical Handbook of Soil, Vadose Zone, and Ground-Water Contamination** J. Russell Boulding,Jon S. Ginn,2016-04-19 A synthesis of years of interdisciplinary research and practice the second edition of this bestseller continues to serve as a primary resource for information on the assessment remediation and control of contamination on and below the ground surface Practical Handbook of Soil Vadose Zone and Ground Water Contamination Assessment Prev **Storm Water Management and Technology** United States. Environmental Protection Agency,1993 This book provides industrial facilities with comprehensive guidance on the development of storm water pollution prevention plans and identification of Best Management Practices BMPs It provides technical assistance and support to all facilities subject to pollution prevention requirements established under National Pollutant Discharge Elimination System NPDES permits for storm water point

discharge discharges In addition to providing guidance for facilities that are subject to storm water permit requirements this book contains information that is generally useful for controlling storm water problems Guidelines and accompanying worksheets will walk the reader through the process **Guides to Pollution Prevention** ,1993 Handbook ,1994 Item no 0431 K *Protecting Natural Wetlands* ,1996 *Nevada Test Site (NTS) and Off-site Locations in the State of Nevada, Tonopah Test Range, Portions of the Nellis AFB Range (NAFR) Complex, the Central Nevada Test Area, and Shoal Area, Nye County* ,1996 **Resources and References** Donna S. Kocurek, Bayle Woodside, 1995-12-31 This guide book provides references and resources for the complex field of hazardous waste and hazardous materials management The book is divided into general topics such as air quality industrial wastewater pollution prevention and risk assessment under hazardous waste management and chemical hazards emergency planning and hazard communication under hazardous materials management Each individual section includes a list of annotated bibliographies of the most recent books by major publishers as well as established standard references Following the annotated titles are additional references of books and documents by publishers technical associations and governmental agencies primarily the U S Environmental Protection Agency In general only references from 1986 onward are included since the technology and regulations affecting hazardous waste and materials are constantly evolving Additional resources included in the book are video tapes for training and instruction information services and databases libraries agency contacts technical journals and a list of publishers and ordering information This book will be a useful reference to professionals in the environmental field who need an extensive but concise source of technical information and contacts The book will be a valuable addition to individual libraries and will fill a current reference void in university libraries and technical libraries in industry and government At present there are very few technical bibliographies in the field and none has covered topics related to hazardous materials and hazardous waste as extensively as this book South Sacramento Corridor, Transit Improvements ,1997 **The POTW Operator's Guide to Pollution Prevention** ,1996

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Table of Contents Automotive Refinishing Industry Guide To Pollution Prevention

1. Understanding the eBook Automotive Refinishing Industry Guide To Pollution Prevention
 - The Rise of Digital Reading Automotive Refinishing Industry Guide To Pollution Prevention
 - Advantages of eBooks Over Traditional Books
2. Identifying Automotive Refinishing Industry Guide To Pollution Prevention
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Automotive Refinishing Industry Guide To Pollution Prevention
 - User-Friendly Interface
4. Exploring eBook Recommendations from Automotive Refinishing Industry Guide To Pollution Prevention
 - Personalized Recommendations
 - Automotive Refinishing Industry Guide To Pollution Prevention User Reviews and Ratings
 - Automotive Refinishing Industry Guide To Pollution Prevention and Bestseller Lists
5. Accessing Automotive Refinishing Industry Guide To Pollution Prevention Free and Paid eBooks
 - Automotive Refinishing Industry Guide To Pollution Prevention Public Domain eBooks
 - Automotive Refinishing Industry Guide To Pollution Prevention eBook Subscription Services
 - Automotive Refinishing Industry Guide To Pollution Prevention Budget-Friendly Options

6. Navigating Automotive Refinishing Industry Guide To Pollution Prevention eBook Formats
 - ePub, PDF, MOBI, and More
 - Automotive Refinishing Industry Guide To Pollution Prevention Compatibility with Devices
 - Automotive Refinishing Industry Guide To Pollution Prevention Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Automotive Refinishing Industry Guide To Pollution Prevention
 - Highlighting and Note-Taking Automotive Refinishing Industry Guide To Pollution Prevention
 - Interactive Elements Automotive Refinishing Industry Guide To Pollution Prevention
8. Staying Engaged with Automotive Refinishing Industry Guide To Pollution Prevention
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Automotive Refinishing Industry Guide To Pollution Prevention
9. Balancing eBooks and Physical Books Automotive Refinishing Industry Guide To Pollution Prevention
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Automotive Refinishing Industry Guide To Pollution Prevention
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Automotive Refinishing Industry Guide To Pollution Prevention
 - Setting Reading Goals Automotive Refinishing Industry Guide To Pollution Prevention
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Automotive Refinishing Industry Guide To Pollution Prevention
 - Fact-Checking eBook Content of Automotive Refinishing Industry Guide To Pollution Prevention
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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