

PROJECT UPDATE

AUTO BODY & PAINT (AB&P) P2 PROJECT

Progress since September 2004

Research

Initial efforts have focused on project staff becoming knowledgeable about the industry and current regulatory framework. In the period July 2004 through January 2005, staff has researched current industry practices and trends, investigated applicable pollution prevention (P2) technologies, and identified concerns to be addressed in the project. In addition, staff are receiving feedback on how to best develop and distribute project materials and effectively promote the implementation of Best Management Practices (BMPs) and P2 practices.

The Department of Toxic Substances (DTSC) research activities have included:

- Visiting shops and interviewing managers and owners
 - touring facilities and investigating processes,
 - discussing concerns with owner/operators and technicians,
 - sampling sanding dust, booth filters, and solvent recycler still bottoms to determine if they are hazardous wastes, and
 - seeking their interest in being involved with future project activities such as reviewing program materials.
- Visited auto paint industry training centers and talking to training center managers
 - learning about industry practices, paint usage and conservation,
 - finding out what is being taught at training centers and which topics and practices have specific pollution prevention benefits,
 - exploring ideas for incorporating additional pollution prevention concepts into existing training programs, and
 - evaluating pollution prevention concepts from the economic business perspective of an auto body shop.
- Researched industry equipment and painting technologies
 - conducted on-line research,
 - contacted or met with paint and equipment manufacturers and distributors,
 - toured a distributor's training facility, which will soon offer I-CAR training classes from preparation to paint application
 - discussed using DTSC P2 materials in their training
 - observed demonstration of vacuum sanding equipment
- Discussions with the following local agency regulators to determine their concerns and needs in this industry:
 - Certified Unified Program Agency (CUPA) inspectors,
 - county air district inspectors,

- Air Resources Board (ARB) - automotive painting staff, environmental justice staff
- P2 committees - include CUPA, air quality, water quality staff, green business and business assistance staff, and
- local water quality inspectors.

Compilation of Materials

The project team is currently incorporating what we have learned into draft fact sheets and informational materials for BMP and P2 strategies for automotive refinishing shops. Materials are being developed in the following categories:

- Sanding dust management – to address concerns associated with sanding dust such as: airborne dust affecting finish quality and worker health and safety, and the liability associated with mismanagement of dusts (sewer, stormwater, and improper disposal). Materials will offer BMPs and P2 solutions such as vacuum sanding.
- Paint conservation – to address the economic, environmental, and health and safety implications of wasting expensive paint. These materials focus on equipment, BMPs, training, and common sense to get the most out of expensive painting systems. Much of what is taught at technician training centers focuses on this topic. The point of this fact sheet is to reiterate and stress the value of paint conservation and direct people to training and paint conservation products and tools.
- Gun cleaning and solvent conservation – to address economic, environmental and health and safety implications of wasting solvents through over use, poor cleaning practices, and evaporative loss. Materials will alert the reader to exposure concerns, offer ideas for paint conservation, and identify BMPs and P2 solutions such as using paint gun pot liners.
- Waterborne coatings – to let shop managers know that waterborne technology has improved and is not going away. Materials will likely include current trends in waterborne paints (with reference to information resources), and case studies of shops that have converted to waterborne primers, or complete waterborne systems.
- Alternative and low-VOC products – to let technicians and shop owners know of the health and environmental effects of the various shop products that contain VOCs. Materials will offer alternative product ideas, highlight trends in the regulation of products such as waxer/degreasers, and direct people to vendors, and include testimonials.
- Spray booth – to show that proper maintenance reduces waste as well as materials and labor costs. The materials will include the advantages of painting inside a properly maintained and permitted spray booth, management of paint booth filters, and worker protection.
- Wastewater management and P2 – to promote proper management of wastes and wastewater to eliminate contaminated storm water runoff and improper sanitary sewer discharge. The materials will address car washing and wet sanding, and emphasize employee P2 training to ensure that spill prevention, good housekeeping, and dry floor clean up are practiced in the shop.

Self audit (compliance) checklist

The main purpose of the self audit checklist is to help this industry make sense of the multimedia rules and regulations affecting their business, then take the necessary steps to achieve or maintain compliance. We have completed a first draft of the checklist, which covers compliance checkpoints for hazardous materials and waste, air quality, and water quality, by shop operation. More detailed compliance requirements are provided in appendices, including a matrix of air quality requirements for autobody shops that are subject to a specific air district automotive refinishing rule. We plan to revise the checklist to improve its clarity and relevance by continuing to solicit input from autobody shops and local regulatory agencies. The checklist may be renamed an “environmental self-assessment” to emphasize our assistance role.

We also see the need for a hazardous waste identification fact sheet. Autobody shops can generate spent solvents from cleaning cars and paint equipment, still bottoms from onsite solvent recycling units, waste paint and other coatings, hazardous dusts from sanding and grinding operations, contaminated rags and other debris, empty containers, and contaminated wash waters. Less often they may generate lead acid batteries, used oil and oil filters, and spent antifreeze. We plan to develop a brief guide to hazardous waste identification, focusing on these autobody hazardous wastes.

Stakeholder Input and Involvement

Project staff recently compiled an outline including general shop operations and associated BMPs and P2 strategies. This outline was emailed to stakeholders soliciting their input and involvement. The email was initially sent on January 20, 2005, to 65 stakeholders, most of whom we contacted and consulted during our research. Shortly thereafter, this email was sent to over 200 potential stakeholders from the various regional P2 committees. The “List of Stakeholders” that the email was sent to is attached.

As of February 1, 2005, approximately 22 individuals have responded to this email offering suggestions and advice. More have indicated that they would respond within the next few weeks. Many of these people have indicated that they would be interested in reviewing future project materials. As we progress, we anticipate that these and other stakeholders will provide input on some or all aspects of the conceptual design of the training, outreach, and delivery strategy for the AB&P project.

Partnering

Developing partnerships is critical to project design, implementation, and ultimately the adoption of the project by the private sector.

We are in the initial stages of developing these partnerships. The primary opportunities to build relationships are in the next phase of the project (sharing information and questions with stakeholders regarding our research results).

The following represents our initial partnership efforts:

- Of nine air district representatives that we have contacted (see below), three have agreed to carry the program to their clients and conduct our training in their respective districts. The others have not yet committed but are considering active participation. We will be contacting more air districts as we proceed.

BAAQMD: Damian Breen
BAAQMD: Tyler Henthorne
SCAQMD Inspector: Hugh Heney
SCAQMD Rule Coordinator: Fred Lettice
Santa Barbara APCD: Francis Gilliland
Sac Met AQMD Inspector: Harvy Moyer
Sac Met AQMD Compliance Assistance: Rick Balazs
San Joaquin Valley APCD: Heather Kuklo
Placer County APCD: Ann Bertrand

- A regional I-CAR center, has agreed to include our training as a component in their technical training program. I-CAR is the largest technical training provider focused on the auto collision industry.
- Of the nine CUPA's we have contacted (see below), five have agreed to review and possibly incorporate our training into their inspection routine and education outreach. The others are also considering active participation. We will be contacting more CUPA's as we proceed.

Contra Costa Co CUPA: Robin Bidel-Waite
Sacramento Co. HazMat: Dennis Green and Lisa Perez
San Francisco, DPH Virginia St. Jean
Alameda County GBP: Pam Evans
Sonoma County: Andrew Parsons and Linda Collister
San Bernardino Co. Fire, Hazmat: Greg Beach
San Diego DEH, HMD: Ellen Schulte
Orange County HazMat, Steve Kim
Humboldt Co. CUPA: Melissa Martel

- We are currently working with major suppliers and trade associations (Dupont, PPG, 3M, California Autobody Association (CAA) and others,) seeking their assistance with project development, marketing support, and implementation. Areas of interest include:
 - identifying water-based, low-VOC, and waste minimizing products;
 - commitments to incorporate aspects of our project into their respective outreach and training programs; and
 - use of facilities.

Future Activities

Website/FAQ

Our current plan is to put the AB&P training materials, information and resource links on our DTSC website, or perhaps a separate dedicated website. We are also considering producing digitized media for specific promotional and training components. We intend to solicit input from the industry and users as to the best approach for delivering the AB&P project products. Our website will also likely include a link to a list of Frequently Asked Questions or FAQs. FAQs will be an industry driven approach to introduce our training solutions as answers to the frequently asked questions.

ATTACHMENT

LIST OF STAKEHOLDERS

* Indicates current interested advisory team participants

State and National Organizations

I-CAR Training Manager: Jason Bartanen
I-CAR South Pacific Training Mgr: Lorene Lombardi
I-CAR Training Center-Mather AFB, Tom Stark at Mather AFB
I-CAR's PACE+ST³, Executive Director, Ron Ray
C-CAR, Lirel Holt, CARSTAR Vice Chairman of the Board
CCAR-Greenlink, Sean Ochester
*California Autobody Association, Pete Bezek, Northern California Rep
*California Autobody Association, David McClune, Executive Director
ARB: Nancy Adams & Terone Preston
DuPont SMART Training and Consultant, Hank Nunn
Toyota Cert. Collision Center training provider, Brad Brahe,
DTSC Task Force/Special Investigations Unit, Leo Valdez
DTSC Southern California P2 coordinators: Evelina Rayas & Nabil Yacoub
IRTA, Katy Wolf
DHS, Julia Quint

AQMD/APCDs

*BAAQMD: Damian Breen
*BAAQMD: Tyler Henthorne
SCAQMD Inspector: Hugh Heney
*SCAQMD Rule Coordinator: Fred Lettice
*Santa Barbara APCD: Francis Gilliland
Sac Met AQMD Inspector: Harvy Moyer
Sac Met AQMD Compliance Assistance: Rick Balazs
San Joaquin Valley APCD: Heather Kuklo
Placer County APCD: Ann Bertrand
CAPCOA Executive Director, Stew Wilson

CUPAs

Contra Costa Co CUPA: Robin Bidel-Waite
Sacramento Co. HazMat: Dennis Green and *Lisa Perez
*San Francisco, DPH Virginia St. Jean
Pam Evans, Alameda County GBP
Sonoma County: Andrew Parsons and Linda Collister
*San Bernardino Co. Fire, Hazmat: Greg Beach
*San Diego DEH, HMD: Ellen Schulte
Orange County HazMat, Steve Kim
*Melissa Martel, Humboldt Co. CUPA
ABAG, Ceil Scandone

Sanitation Districts and Storm Water Programs

Sacramento County Storm Water Program, John Lewis

*East Bay MUD: Stan Archacki

*City of Santa Rosa: Chris Murray

City and County of San Francisco, Steve Medberry

Los Angeles County, Surface Water Discharge BMPs, Joyce Amaro

Los Angeles County, Chief Industrial Waste Inspector, Steve Pedersen

*Santa Cruz DPW, Jo Fleming, Environmental Programs Coordinator

Suppliers

Dave Harshberger, Mac's Distributing

Dennis O'Keefe, Holly's Paints

Dale Schell, Jim's Color Corner

Jerry's Paint and Supply, Tom Christman

Tom Welsh, Jerauld's Auto Paints Inc.

Godfrey Becks, IH and consultant to industry

Automotive Refinish Shops Visited

*Shanahan's Auto Body & Paint, Sacramento Matt Stevens

*Premier Auto Body, Pinole, Tom Welsh

*Gamboa's Body & Frame, Roseville, Lee Gamboa

Cecil's Autobody, Sacramento

1-Day Paint & Body, Sacramento

Kings Wholesale Paint & Body, Sacramento

Victory Auto Body and Paint, Sacramento

Automotive Refinish Shops Consulted (not visited)

Lou Saare Body Shop, Santa Rosa, David Worthington

California Auto Body & Frame, National City, Gabriel Hernandez

Training Centers Visited

*3M Automotive Aftermarket, Stan Berceau, Area Sales Manager

*Toyota Training Center, Roger Larson

*DuPont Auto Finishes Training Manager, Scott Diaz; and Environmental Manager, Bob Young

*Joel Smith, Owner, Precision for Collision Training Center (Future I-CAR center)

Major Paint Manufacturer Representatives

Rafael Ochoa, DuPont Refinish CA Project Manager

Michael Veney, Sherwin-Williams, Regulatory Affairs

Jerry Cashon, Sherwin-Williams, Training Center Manager

Bill Troyer, PPG-Manager of Training Centers

Business Assistance Centers

Sac BERC, Troy Givans
Bay Area REBRAC, Mike Hall
*Los Angeles/Orange County REBRAC, Perla Fickenscher
*North/Far North REBRAC, Bill Connors
Central REBRAC, Ann Boyce
South Coast REBRAC, Robert Peterson
San Diego REBRAC, Vivian Bogue
*Statewide REBRAC, Ken Zion (Collision repair consultant and instructor)

P2 Committees

San Bernardino/Riverside County P2 Committee – 13 members
North Coast P2 Committee – 40 members
Golden Gate P2 Committee – 45 members
Tri-County P2 Committee – 45 members
Southern California P2 Committee – 36 members
San Diego-Imperial County P2 Committee – 16 members
 *Marsha Cook, San Diego Co., Watershed District
Monterey Bay Area Pollution Prevention Partnership

PROJECT UPDATE

THE HAZARDOUS WASTE SOURCE REDUCTION AND MANAGEMENT REVIEW ACT OF 1989 (SB 14)

I. SB 14 Compliance Initiative

SB 14 requires facilities that annually generate greater than 12,000 kilograms (13.2 tons) of hazardous waste to prepare three source reduction documents every four years and maintain these on site for review. One of these three documents, the Summary Progress Report (SPR), must also be submitted to DTSC by the same document preparation date.

DTSC's Pollution Prevention program has historically pursued industry compliance through cooperation and consultation rather than traditional enforcement methods. OPPTD initially received 1,200 SPRs by September 2003. As of the last update to the Advisory Committee (September 2004), about 1,500 SPRs had been submitted. The following information briefly outlines our compliance initiative since the last update:

Major activities and outcomes:

- Certified mailing was done in September 2004 targeting 500 "first time offenders" who failed to respond to the first notice of non-compliance. "First time offenders" are those who were not on our 1998 list, and may just have been captured by SB 14 in this current cycle.
- In January 2005, OPPTD staff have been contacting about 100 remaining facilities by phone.
- Additional 200 facilities have returned to compliance resulting from the September mailing, bringing the total of facilities submitting SPRs to date (January 2005) to about 1,700.

Next steps:

- Proceed with formal enforcement action/penalty phase on non-compliant companies after staff completed their phone contacts.
- Working with DTSC's IT staff, complete proposed enhancements to SPR online reporting. These enhancements will make it more user-friendly for generators, and will be easier for OPPTD staff to generate reports.

II. Technical Forums

Technical forum is one vehicle which OPPTD has used to promote pollution prevention while building good relationship with industries. OPPTD has partnered with the Western States Petroleum Association (WSPA) and the Semiconductor Environmental, Safety and Health Association (SESHA) to hold technical forums for their industry (petroleum refinery and semiconductor industry).

A. Petroleum Refinery Industry

The 2004 WSPA/DTSC Pollution Prevention Symposium held on September 27-28, 2004 at the Holiday Inn in Sacramento, focused on on-site soils management and innovative soil treatment technologies. Contaminated soils, which are generated primarily during refinery construction projects, represent a significant waste stream at most refineries each year. This waste stream has never been officially targeted for source reduction projects because it is exempted from SB 14 reporting requirements. The symposium planning team (consisting of representatives OPPTD, WSPA, Tesoro, BP and Valero) decided that the petroleum and other industries could benefit by sharing information on ways to minimize off-site shipment of impacted soils through defensible on-site soils management strategies. Forty individuals representing the petroleum industry, government, consultants, and technology providers participated in this two day event.

The first day of the symposium featured a detailed case study involving 29,700 cubic yards of non-hazardous soils at Tesoro's Golden Eagle Refinery in Martinez, California. Speakers from Montgomery Watson Harza (Tesoro's consultant), USEPA, and San Francisco Bay Area Regional Quality Control Board addressed technical and multimedia regulatory aspects of implementing an on-site soils management program. The second day focused on on-site soil treatment and commenced with a presentation on permitting requirements lead by DTSC's Hazardous Waste Management. Technology providers gave presentations on various mechanical, chemical and biological soil treatment technologies. DTSC staff gave a lunchtime presentation on the global impacts of used oil management and opportunities for corporate stewardship.

At the end of each day, time was reserved for facilitated discussion designed to identify possibilities, barriers to success, and future actions. Participants outlined a team approach to identifying problems, inconsistencies and regulatory grey areas that hinder on-site soils management. Later in February, the team will reconvene to move forward on these actions and discuss possible ideas for the next petroleum industry forum.

B. Semiconductor Industry

OPPTD staff had been working with the semiconductor industry, specifically with SESHHA, to promote pollution prevention to the industry. Staff has been building a good relationship with the semiconductor industry to open the door for more voluntary pollution prevention projects.

In November 2004, OPPTD staff participated in SESHHA's annual mini-conference where staff co-presented SB 14 implementation issues together with an industry consultant who had actual experience in promoting SB 14 to his clients. Other topics also featured various pollution prevention issues with speakers making connections between SB 14, ISO 14001, and positive company business successes.

Staff will continue participating in SESHHA's planning efforts on their annual mini-conference, which is usually scheduled in November.

III. Industry Assessments

OPPTD assesses source reduction efforts of selected industries to collect and document information on exemplary source reduction approaches considered by the industry. Currently, OPPTD is conducting assessment of the petroleum refinery and semiconductor industries.

A. Petroleum Refinery Industry

Right after the Petroleum Refinery 1998 Assessment Report was completed in January 2004, staff called in 2002 SB 14 documents of petroleum refineries to continue assessment of the petroleum industry's source reduction efforts (1998 – 2002). Staff is currently reviewing these 2002 SB 14 documents and anticipates completing the report by Fall 2005.

B. Semiconductor Industry

Staff had completed draft of the Semiconductor Industry Assessment Report, and was reviewed by management. Draft profiles of selected companies were prepared as part of this assessment report, and were sent to featured companies for review.

Staff will address and incorporate company comments on the company profiles, and will finalize assessment report after facilities review. Expected completion date is spring of 2005.

C. Others

OPPTD staff is evaluating various industries for the next industry source reduction assessment. OPPTD anticipates calling in SB 14 documents of the selected industry in March 2005.

PROJECT UPDATE

VOLUNTARY POLLUTION PREVENTION PROJECT MERCURY (HG) ELIMINATION LEADERSHIP PROGRAM (HELP)

Project History

The Department of Toxic Substances Control (DTSC) undertook a voluntary pollution prevention (P2) program with the goal of virtually eliminating the presence of mercury in California hospitals by the end of 2005. The challenge was issued to over 500 California hospitals by correspondence on November 4, 2002. The letter was sent to the hospitals' administrators and hazardous waste or health and safety officers. Copies of the letters were also sent to the hospital's local enforcement agency and publicly owned treatment works (POTW). DTSC is using the definition for a "general acute care hospital" under Health and Safety Code Section 1250(a) to define the hospitals targeted for this project.

Partners

In the spring of 2002, DTSC met with the Department of Health Services (DHS) because of previous mercury elimination work with them to develop a partnership for this project. Other partners on this project are the California Healthcare Association (CHA), California Water Environment Association (CWEA), United States Environmental Protection Agency (U.S. EPA), Region IX, and Hospitals for a Healthy Environment (H2E). All of the partners in this project support us through advertising our training sessions and encouraging their members to enroll in HELP. As a hospital signs up to be a partner with HELP, they are also given the option to have DTSC sign them up as a member of H2E. A hospital reaching virtual mercury elimination not only receives recognition from California's DTSC, but also qualifies for the national H2E "Making Medicine Mercury-free" award.

The POTWs are encouraged to partner in HELP with their local hospital. In April of 2004 DTSC sent a letter to the sixty largest POTWs inviting them to join with us in seeking the virtual elimination of mercury waste in hospitals by the year 2005 by participating in HELP. This outreach letter included a sample letter for the POTWs to customize and send to their local hospitals. Santa Cruz County Sanitation District, Eastern Municipal Utility District in Riverside County, and Oro Loma Sanitary District in Alameda County each hosted workshops for HELP. Los Angeles County Sanitation District, Orange County Sanitation District, and Inland Empire Utility Agency also co-hosted a workshop for Los Angeles and Orange County. Central Contra Costa Sanitary District in Contra Costa County will host a workshop in Martinez, California on March 15, 2005.

Resources Update

A mercury reduction toolkit with appropriate publications and a CD were developed that contain all of the tools needed for a hospital to eliminate mercury from their facility. These tools include a list of mercury-containing devices in the healthcare setting, a spreadsheet to account for the mercury sources, a list of licensed mercury recyclers and

take-back programs, and the Universal Waste Rule regulations for the proper handling of discarded mercury products. Forms for enrolling in the program are included, along with additional resources for hospitals on the cutting edge of implementing pollution prevention. The CD has been updated with a new simplified spreadsheet for the hospitals. The simplified spreadsheet works best for hospitals that have completed their mercury elimination. The original assessment tool is very in-depth and works best for hospitals just beginning mercury elimination. The CD updates also include recent changes in the Universal Waste Rule and additional information on the proper disposal of pharmaceuticals.

Outreach

DTSC initially focused on outreach to the hospital system administrators. With commitment from the hospital system administration for their member hospitals to work on mercury elimination, hospitals are able to get the funding needed to replace their instruments, approval to replace the previous laboratory procedures, and devote the time necessary to complete the transition. Catholic Healthcare West's Marian Medical Center and Sharp HealthCare both sponsored training. Four hospital systems have committed to all of their hospitals reaching virtual mercury elimination. These systems are Kaiser, Sutter Healthcare, Catholic Healthcare West, and the University of California. A corporate certificate has been designed for hospital systems that become mercury-free. DTSC plans to award Kaiser Permanente this certificate in June 2005 at the Kaiser Permanente's National Environmental Health and Safety Meeting in Walnut Creek, California. We are currently processing the paperwork to award the remaining Kaiser hospitals in California their certificates.

County hospitals were targeted through the California Association of Public Hospitals and Health Systems (CAPH) and encouraged to participate in HELP. CAPH has published articles on the HELP program and encourages its members to attend training. Ventura County Medical Center hosted training for HELP.

Local governments and the local government pollution prevention committees have supported the HELP program through their contacts with POTWs and hospitals. They have helped in locating facilities to host workshops, co-hosted workshops, and located key speakers for some workshops. The Monterey Bay Area Pollution Prevention Group (MBAP3) co-hosted a workshop in Santa Cruz, North Coast Pollution Prevention Committee hosted a workshop in Fortuna for Humboldt County, and San Diego County co-hosted a workshop in San Diego County. A member of the Fresno Area P2 Committee is helping to organize a workshop in Fresno County.

Training

Outreach to the hospitals is now focused through our training sessions. These training sessions are held at hospitals, POTWs, and local government facilities. The main topic of the training sessions is mercury elimination. However, hospitals have many current topics of interest and we have a better success rate at attendance and recruitment to the HELP program by offering workshops with a variety of topics. Our workshops

include mercury elimination, the Universal Waste Rule, the proper disposal of pharmaceuticals, local waste water issues, medical waste disposal, and the West Nile virus. OPPTD staff will be taking over the presentations on the Universal Waste Rule. Most hospitals and POTWs are enrolled in the program through the reminder telephone calls made prior to the workshops. **Twenty training sessions in mercury elimination were provided to over 860 attendees interested in hospital pollution prevention.** Those in attendance statewide include hospitals, POTWs, and local government enforcement staff. In addition to the training scheduled at Central Contra Costa Sanitation District on March 15, 2005 workshops are scheduled for April 7, 2005 at Tulare District Hospital in Tulare County and May 25, 2005 at St. Elizabeth's Hospital in Tehama County.

Changes resulting from survey suggestions have included the design of a new one inch by one inch sticker to identify mercury-containing devices. While an audit is being done, mercury-containing devices not being removed at that time can be properly tagged. This ensures future proper disposal. Based on survey suggestions we now give all attendees copies of all presentations and built in time to network. We will also try to incorporate more "how to" information and encouragement of local government involvement.

HELP Participants and Awards

DTSC works with the California Department of Health Services (DHS) to certify when a hospital has become mercury-free. Certificates of appreciation were presented to twenty-nine hospitals that successfully eliminated mercury sources for which there were replacements, and that have a plan for properly dealing with other sources upon removal or when alternatives become available. The paperwork is being processed for the University of California at San Diego Medical Center, Veterans Affairs San Diego Health System, Alhambra Hospital Medical Center, and the remaining twenty-six Kaiser facilities. Banners were designed (two feet by six feet) for hospitals to announce their accomplishment.

HELP Award Recipients

Alta Bates Summit Med Center – Ashby Campus	Saint Louise Regional Hospital
Alta Bates Summit Med Center – Herrick Campus	Salinas Valley Memorial Hospital
Alta Bates Summit Med Center – Summit Campus	Scripps Mercy Hospital
Anaheim Memorial Hospital	Sutter Auburn Faith Hospital
City of Hope National Medical Center	Sutter Coast Hospital
Eden Medical Center	Sutter Davis Hospital
Kaiser Permanente Fontana Medical Center	Sutter Delta Medical Center
Kaiser Permanente Fresno Medical Center	Sutter General Hospital
Kaiser Permanente Roseville Medical Center	Sutter Lakeside Hospital
Kaiser Permanente Santa Rosa Medical Center	Sutter Maternity and Surgery Center
Marin General Hospital	Sutter Memorial Hospital Sacramento
Memorial Hospital Los Banos	Sutter Roseville Medical Center
Memorial Medical Center Modesto	Sutter Solano Medical Center
Mills Peninsula Health Services	Stanford Hospitals and Clinics
Novato Community Hospital	

A total of 669,360 grams or 1,476 pounds of mercury were removed from these 29 hospitals. Photos from the awards ceremonies are posted on the website at <http://www.dtsc.ca.gov/HazardousWaste/Mercury/HELP/> . The website became available on January 30, 2004. It lists all of the partners, allows hospitals and POTWs to enroll online, and contains all of the materials in the mercury toolkit along with other useful healthcare pollution prevention links.

One hundred sixty-seven hospitals and twenty-six POTWs have joined the HELP program. If we achieve virtual mercury elimination from the current 167 hospitals who have partnered with us, we project the removal of approximately 3,227,375 grams or 7115 pounds of mercury statewide.

Exit Strategy

DTSC will continue to have workshops, work to develop commitments from hospitals to sign up for the HELP program, provide assistance in mercury elimination, and collect data to measure project success. The goal of the voluntary partnership of the American Hospital Association, U.S. EPA, and Health Care Without Harm is virtual elimination of mercury waste generated by hospitals by 2005. In conjunction with this, DTSC will end the Mercury Elimination Leadership Award presentations by December 31, 2005. A transition plan will be explored to consider the continuation of the awards through one of the HELP partners. DTSC will also explore a method of condensing and disseminating the information on mercury elimination into a format appropriate for sharing with physicians' offices and medical groups.

PROJECT UPDATE

VEHICLE SERVICE AND REPAIR

Project History

Californians are concerned about the quality of their environment, and are vitally interested in ensuring that the generation and release of toxic and other hazardous substances is minimized. In response to this concern the legislature has augmented the state's hazardous waste source reduction program within CAL/EPA's Department of Toxic Substances Control (DTSC), with SB 1916 of 1998. The legislature also directed DTSC to convene a Pollution Prevention Advisory Committee to help determine how to target DTSC's pollution prevention resources. SB 1916 requires DTSC to select a small business industry for special pollution prevention program focus. On July 2000, with the assistance of the Advisory Committee, the Vehicle Service and Repair (VSR) industry was selected. OPPTD embarked on an ambitious project requiring partnerships with varied number of stakeholder groups, inclusive but not limited to; industry associations and labor groups, local governments, parts distributors, motorist and consumer groups, state agencies, and environmental and community groups. The program's success and potential had led to the continuance of the program for the 04/06 work plan cycle.

Training

(Since project inception) – The Vehicle Service and Repair teams have conducted training to regulators and local auto and fleet repair businesses commencing October 2000 to present. An outline of training related activities and resources distribution are provided below:

Results and Progress from July 2000 through February 2005

DTSC distributed numerous P2 resources directly to local agencies, businesses and industry partners. Numbers for materials distributed through February 2005 are shown.

Toolkits	10,230
Hydrophobic Mops	5,540
Auto/Fleet Videos	1,980

The VSR P2 training program continues and the workshop dates are posted on the DTSC web site. A summary of training related activities and respective audiences conducted from October 2000 through February 2005 are shown.

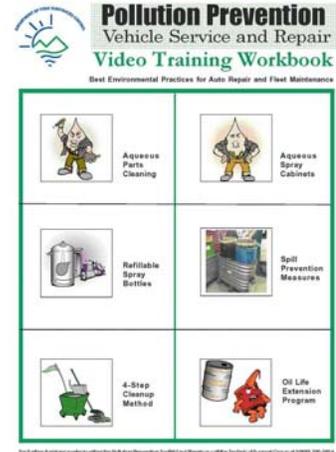
Training sessions by DTSC	95
Total number of participants	1974
Total number of CUPA's	41
Total number of non-CUPA agencies	137
Number of private businesses	304
Number of public fleets	89
Conferences to date	15
P2 Model Shop Recognitions	54

Resource Updates

VSR Interactive Training Videos and Workbooks – In January 2005, DTSC completed formatting the VHS training videos (which were currently available in VHS formats) into DVD, CD and windows media web files. The web based files will be available on the DTSC web site for downloads by the end of February, and copies of the CD and DVD versions should be available for distribution towards the end of March 2005.

The following is a list of additional resources currently available from OPPTD for distribution;

- ❖ 4-Step Dry Floor Cleanup Poster
- ❖ 4-Step Dry Floor Cleanup Poster (Spanish)
- ❖ Automotive Repair Best Management Practices Video (Spanish)
- ❖ PPT Presentation VSR (Spanish)
- ❖ *VSR Self-Paced Video Training Workbook*
- ❖ *VSR Pollution Prevention Toolkits (Spanish)*



Additional resources available for distribution through DTSC, Office of Pollution Prevention and Technology Development are:

- ❖ Pollution Prevention Toolkits (English)
- ❖ N-Hexane Use in Vehicle Repair Health Advisory
- ❖ Best Environmental Practices for Auto Repair Video
- ❖ P2 Opportunity Assessment for Vehicle Repair
- ❖ Pollution Prevention Model Shop Checklist for Vehicle Repair
- ❖ Cleaners and Degreasers used in Automotive Maintenance and Repair
- ❖ Hydrophobic Mops with stencils & stickers



Model Shops

OPPTD continues to support local maintenance facilities, in addition to local and state government agencies with video training workbooks and updated P2 resources available from DTSC and other agencies, such as, Air Resources Board and the California Integrated Waste Management Board. Local shops within Green Business supported areas are provided informational and contact resources for the local programs.

Below are DTSC P2 Model Shops receiving recognition in FY 2004.

Model Shops

Pacific Heights Chevron (S.F.)	San Bernardino Corporate Service Yard
Santee US Border Patrol	Beyer US Border Patrol
Redwood City General Tire	Half Moon Bay Auto Repair
UC Santa Cruz	East Bay Municipal Utilities District
City of Coronado	Sacramento Municipal Utilities District
City of Chula Vista	Imperial Beach/U.S. Border Patrol
San Clemente US Border Patrol	Temecula US Border Patrol
Castro Chevron (S.F.)	

“From May to December 2004 our new oil testing program has reduced our oil consumption on heavy trucks by 6,895 quarts. This reduces the energy required to process the oil, and also disposal of the contaminates at the end of the process, not mention the reduction in our O&M costs.”

Brian Smith, Superintendent of Transportation, SMUD

DTSC P2 Model Shop Recognitions 2001 to Present	
State Facilities	31
Federal Facilities	5
Private Fleet	4
Municipal Fleets	8
Auto Repair Shops	6
Total Facilities	54

to

VSR and the Source Reduction Program (SB 14)

The VSR Team has been working with private and public repair shops for autos as well as fleets. Recently the VSR team has decided to incorporate the SB 14 program into the VSR Project. This is being done by working in collaboration with staff from the Source Reduction Unit to identify fleets captured by SB 14.

A list of non-filers of SB 14 documents from fleet service businesses, for the last reporting cycle, due September 2003, was compiled by the Source Reduction Unit. Staff used this list to determine the top fleet services that generate the largest amount of hazardous waste. Using an annual tonnage of 100 tons as the cutoff, staff generated a list of 27 businesses that manifested hazardous waste offsite greater than 100 tons in 2002. A closer look at the data prompted staff to remove four businesses from the list

because their largest wastes manifested offsite were from cleanup wastes or one time only events, not a routinely generated hazardous waste. Currently, staff is evaluating this list to determine if the businesses have submitted a Summary Progress Report (SPR), which would indicate the availability of SB 14 documents from the business. In the event a business has submitted the SPR, staff will request a copy of the SB 14 documents sent to the DTSC/OPPTD for review. For those companies that haven't submitted their SPR and don't have their SB 14 documents prepared, staff will devise a plan to work with them to develop the necessary documents. Reviewing the fleet's SB 14 documents will allow staff the opportunity to identify P2 options already in place and to decide if the current VSR P2 training is applicable for the facility or if they require other training.

Exit Strategy

The Vehicle Service and Repair project is scheduled to end in **June 2006**. OPPTD has worked hard to develop and distribute updated resources that enable VSR partners to enhance or implement individual programs to address an assortment of needs; CUPA's and Regional Green Business programs comprise the largest of the local gov't sectors that receive support from DTSC's VSR efforts. We expect that with the completion of the latest web based and DVD/CD VSR training aids, government and industry partners will be able to either start or augment their own individual VSR programs and transition from a DTSC driven project. OPPTD will continue to review input as to what additional resources or updates may be required to facilitate complete transition at project end.