

State of California
AIR RESOURCES BOARD

Summary of Board Meeting
May 16, 2002

California Environmental Protection Agency
Air Resources Board
Central Valley Auditorium, Second Floor
1001 I Street
Sacramento, California 95814

MEMBERS PRESENT: Hons. Alan C. Lloyd, Ph.D., Chairman
Dr. William Burke
Joseph C. Calhoun, P.E.
Doreen D'Adamo
Mark DeSaulnier
Barbara Riordan
Ron Roberts

AGENDA ITEM #

02-4-1: Public Meeting to Consider a Health Update

SUMMARY OF AGENDA ITEM:

Staff from the ARB updated the Board concerning recent health findings on long-term exposure to the fine fraction of particulate matter (PM_{2.5}) and associated mortality. Staff emphasized the fact that epidemiological studies that examine both the short and long-term health impacts of PM_{2.5} are currently being evaluated by both federal and State scientists for use in setting PM_{2.5} standards. Staff further discussed two important papers that have been published regarding an American Cancer Society Cohort evaluating long-term exposure to PM_{2.5} and its association with lung cancer mortality and cardiopulmonary mortality. The first study, published in 1995, was criticized and labeled controversial. The latest study, published in March of this year, is a follow-up to the original publication, and addressed criticisms of the original paper. The investigators concluded that long-term exposure to fine particulate air pollution is an important risk factor for lung cancer mortality and cardiopulmonary mortality. These findings lend emphasis to the importance of long-term standards for PM_{2.5} to ensure public health protection. In response to the presentation, the Board stated that they appreciated the effort put forth on updating the board on current health issues, as well as the importance of the findings, like those presented in this health update, in considering public health protection.

ORAL TESTIMONY: None

FORMAL BOARD ACTION: None (Informational Item)

RESPONSIBLE DIVISION: Research Division

STAFF REPORT: No

02-4-2

Public Meeting to Consider Research Proposals

SUMMARY OF AGENDA ITEM:

The staff recommended approval of three contracts:

Proposal No. 2521-225, entitled "Augmentation of Collection of Evaporative Emissions Data from Off-Road Equipment," submitted by Automotive Testing Laboratories, Inc., for a total amount not to exceed \$24,968.43.

Proposal No. 2519-225 entitled "A Pilot Study to Quantify Health Benefits of Incremental Improvements in Air Quality", submitted by the University of California, Berkeley, for a total amount not to exceed \$306,261.

Proposal No.2518-225 entitled "Alternatives to Automotive Consumer Products that use Volatile Organic Compounds (VOC) and/or Chlorinated Organic Compound Solvents," submitted by the Institute for Research and Technical Assistance, for a total amount not to exceed \$189,996.

ORAL TESTIMONY: None

FORMAL BOARD ACTION: The Board approved resolutions 02-21 through 02-22.

RESPONSIBLE DIVISION: Research Division

STAFF REPORT: None

02-4-3 Public Meeting to Consider Adopting the Diesel Emission Control Strategy Verification Procedure, Warranty, and In-Use Compliance Requirements for On-Road, Off-Road, and Stationary Diesel-Fueled Vehicles and Equipment

SUMMARY OF AGENDA ITEM:

Staff proposed the Diesel Emission Control Strategy Verification Procedure (Procedure) which would verify strategies that provide reductions in diesel particulate matter. Those strategies include, but are not limited to, diesel particulate filters, diesel oxidation catalysts, fuel additives, and alternative diesel fuels. The primary function of the Procedure is to support the Diesel Risk Reduction Plan, but in light of California's persistent ozone problem, it will also evaluate technologies for reducing oxides of nitrogen emissions.

For verification, the Procedure would require applicants to perform emission testing, conduct a durability demonstration, and demonstrate its product in actual field use. The Procedure also includes in-use compliance testing to ensure that production units in the field are achieving emissions reductions consistent with their verification, and an emissions warranty.

To ease the financial burden associated with testing, the Procedure allows staff to consider existing data and evaluate if those data can fulfill the Procedure's requirements. Because no direct emissions benefits are associated with the staff's proposal, no traditional cost effectiveness can be calculated. When staff proposes rules to implement in-use controls for the various categories of diesel engines, it will provide more detailed estimates, taking into account the specific issues associated with each category.

This Procedure would provide a way to thoroughly evaluate the emissions reduction capabilities and durability of a variety of diesel emission control strategies. Further, this Procedure provides sound guidelines for evaluation, while retaining the flexibility needed to reduce the burden on applicants and allow speedy implementation of the Diesel Risk Reduction Plan.

The Procedure presented at the hearing contained revisions to the original proposal released on March 29, 2002. The revisions allowed flexibility in increase of pollutants other than particulate matter, gave the Executive Officer the ability to waive the low speed test cycle requirement, and provided flexibility in nitrogen dioxide measurement. Further, the revisions simplified the noise control requirements, required multimedia assessment for fuel strategies, required registration of fuel additives, included installation in the

warranty, clarified the requirements for pre-mixed fuel additives, and addressed a number of non-substantive clarifications.

ORAL TESTIMONY:

Bruce Bertelsen	Manufacturers of Emission Control Association
Dawn Friest	Engine Manufacturers Association
Stephanie Williams	California Trucking Association
Paul J. Beck	Clean Air Partners, Inc.
Oreste M. Bevilacqua	Clean Air Vehicle Technology Center
Don Olson	Olson Engineering, Inc.
Brad Edgar	Cleaire
Chris Weaver	Engine, Fuel, and Emissions Engineering, Inc.

FORMAL BOARD ACTION:

The Board unanimously approved Resolution No. 02-23 adopting the proposed Diesel Emission Control Strategy Verification Procedure. The Board directed the staff to revise the Procedure to require reporting as soon as the warranty claims reach four percent. Further, the Board directed the staff to simplify and clarify the Procedure with the input from the stakeholders.

RESPONSIBLE DIVISION: Mobile Source Control Division

STAFF REPORT: Yes