Winston H. Hickox
*Agency Secretary*

# Air Resources Board

**Alan C. Lloyd, Ph.D.**
**Chairman**
1001 I Street • P.O. Box 2815 • Sacramento, California 95812 • www.arb.ca.gov

**Gray Davis**
*Governor*

April 8, 2002

Dear Sir or Madam:

The Air Resources Board (ARB) staff previously distributed a workshop notification on March 8, 2002. In that notice we informed stakeholders that a workshop would be scheduled on April 25, 2002, to discuss a proposed control measure to reduce evaporative and permeation emissions from small off-road engines (SORE). An agenda covering the topics to be discussed at the workshop was distributed along with the notice. However, since the March 8, 2002 notification, we have amended the agenda to include a discussion on extending the scope of the proposed control measure to require additional controls on non-handheld equipment other than walk-behind mowers such as generators and lawn tractors. Specifically, we are considering design-based standards for all non-handheld categories of small off-road engines subject to the requirements of Sections 2400 et. seq. Title 13, California Code of Regulations.

The workshop will be held at the date, time and location listed below:

DATE: April 25, 2002
TIME: 9:30 am to 12:30 p.m.
PLACE: Air Resources Board
Annex 4 Auditorium
9530 Telstar Ave.
El Monte, California 91731

Enclosed is the amended agenda for the workshop. We would appreciate comments on the concept of allowing a design-based certification for non-handheld equipment.

As part of the public review process we welcome your input and suggestions as we develop and refine the control measure. All information related to this control measure can be found at the ARB web site, www.arb.ca.gov/msprog/offroad/sore/sore.htm. Written comments should be submitted to James Watson at the address listed on the letterhead. Comments can be submitted to Mr. Watson by fax at (916) 322-2444 or by e-mail at jwatson@arb.ca.gov.

This facility is accessible to persons with disabilities. If accommodation is needed, please contact Elizabeth Mongar at (916) 327-0900 by April 22, 2002. Persons with hearing or speech impairments can contact us by using our Telephone Device for the Deaf (TDD) at (916) 324-9531, or (800) 700-8326 for TDD calls from outside the Sacramento area.

*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Website: http://www.arb.ca.gov.*

California Environmental Protection Agency

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We appreciate your participation in our process. To ensure adequate seating, please call Elizabeth Mongar at (916) 327-0900 by no later than April 22, 2002, if you are planning to attend.

If you have questions or need further information, please contact James Watson at (916) 327-1282 or Dean Bloudoff at (916) 323-1169.

Sincerely,

George Lew

George Lew, Chief
Engineering and Certification Branch
Monitoring and Laboratory Division

Enclosure

# Small Off-Road Engine Evaporative Emissions Workshop Agenda

## April 25, 2002

I. Introduction

II. Goal of the SORE Control Measure

A. Establish cost-effective diurnal emissions standard for walk-behind mowers
B. Establish cost-effective permeation standard for fuel tanks used on SORE equipment
***C. Establish cost-effective design-based standard for non-handheld equipment***
D. Utilize off-the-shelf technology to reduce emissions
E. Allow flexible certification requirements to enhance the overall cost effectiveness

III. Status of the Regulatory Effort

A. Inventory development efforts
- Contract testing with Automotive Testing Laboratories

B. In-house testing to date
- Background emissions
- Baseline emissions
- Emission reduction testing

C. Proposed diurnal standard for walk-behind mowers
D. Proposed permeation standard for SORE fuel tanks
***E. Proposed design-based standard for non-handheld equipment***
F. Options for certifying walk-behind mowers
G. Estimated costs of the control measure

III. Off-Road Equipment Fuel Tank Emissions/Emission Inventory

A. Inventory (2020 population estimate)
B. Emission estimate (diurnal, hot soak, and running loss)
C. Expected emission reductions

V. Next Steps

A. Conduct additional testing (ethanol, fuel slosh, and catalyst)
B. Develop certification procedures and alternatives
C. Develop control measure cost estimate
D. Draft proposed regulatory language and staff report

VI. Schedule Leading to Board Hearing

<u>NOTE: Changes to the Agenda of the March 8, 2002 mail-out are shown in **BOLD**</u>