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# Air Resources Board

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Arnold Schwarzenegger  
Governor

April 30, 2004

Mail-Out #MSC 04-10

TO: All Interested Parties

SUBJECT: PUBLIC WORKSHOP TO DISCUSS PROPOSED REGULATORY  
ACTIVITIES FOR NEW AND IN-USE LARGE SPARK-IGNITION (LSI)  
ENGINES GREATER THAN 25 HORSEPOWER

Background: On October 23, 2003, the Air Resources Board (ARB or the Board) adopted the 2003 State and Federal Strategy for the California State Implementation Plan (SIP). The Strategy identifies a series of new State commitments that reduce criteria pollutant emissions and achieve the next increment of progress toward meeting federal health-based air quality standards. On January 9, 2004, the Board submitted the final Strategy to the United States Environmental Protection Agency for approval as a SIP revision.

The Strategy proposes 19 defined measures that ARB staff would develop, covering on-road vehicles, off-road equipment, marine vessels/ports, fuels and refueling, and consumer products. Two of the mobile source measures address emissions from off-road equipment with LSI engines. The first measure, "OFF-ROAD LSI-1: Lower Emission Standards for New Off-Road Non-Preempt Gas Engines [Spark Ignition Engines 25 hp and Greater]," commits ARB to strengthen the emission standard for oxides of nitrogen (NOx) for new LSI engines from 3.0 grams per brake horsepower-hour (g/bhp-hr) to 2.0 g/bhp-hr in 2007 to harmonize with the 2007 federal standard. The second measure is "OFF-ROAD LSI-2 (Consolidated): Clean Up Off-Road Gas Equipment Fleet Through Retrofit Controls and New Emission Standards [Spark Ignition Engines 25 hp and Greater]." This measure commits ARB to additional control measures for LSI, such as retrofit controls, more stringent new emission standards, beyond the alignment with federal standards discussed in OFF-ROAD LSI-1, and increasing the use of zero- and near zero-emission forklifts.

Workshop: Staff will be presenting regulatory alternatives, incorporating the emission reduction requirements of the two LSI SIP measures above. The alternatives we are considering may apply to LSI users or engine manufacturers or both. For example, a fleet average requirement for LSI users could stipulate that fleets meet a prescribed g/bhp-hr fleet average standard for their in-use fleet. The LSI user would have to decide which combination of retrofit, internal combustion, and electric lift procurement would be necessary to meet the fleet average standard, which could become

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progressively more stringent over time. An optional tiered emission standard for new internal combustion engines could allow manufacturers to market forklifts significantly cleaner than current or pending standards. Other options could include mandatory emission standards beyond those required under current or pending LSI rules or an electric purchase requirement.

The formal meeting agenda and any relevant handouts will be available on our web site for your review at <http://www.arb.ca.gov/msprog/offroad/orspark/wrkgroup/wrkgroup.htm> prior to the workshop. If you did not receive this letter directly but would like to be on the mailing list for future notification, please sign up via our web site at <http://www.arb.ca.gov/listserv/ms-mailings/ms-mailings.htm>.

The workshop will be held at the following time and location:

Date: May 26, 2004  
Time: 1:00 p.m. - 5:00 p.m. (PDT)  
Location: Cal/EPA Headquarters Building  
Coastal Hearing Room, 2<sup>nd</sup> Floor  
1001 I Street  
Sacramento, California 95814

If you have special accommodation or language needs, please contact Ms. Marilyn Gomez at (916) 323-6169 or [mgomez@arb.ca.gov](mailto:mgomez@arb.ca.gov) as soon as possible. TTY/TDD/Speech-to-Speech users may dial 7-1-1 for the California Relay Service. For public transit information, please contact Regional Transit at (916) 321-BUSS or view the transportation information on the California Environmental Protection Agency's web site at <http://www.calepa.ca.gov/epabldg/location.htm>.

We welcome your participation in this effort. If you have general questions regarding the May 26, 2004, public workshop or the proposed LSI rulemaking, please contact Mr. Mark Williams, Air Pollution Specialist, at (916) 327-5610 or Mr. Jack Kitowski, Chief, On-Road Controls Branch, at (916) 323-6169.

Sincerely,

/s/

Robert H. Cross, Chief  
Mobile Source Control Division