



Air Resources Board



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Secretary for
Environmental Protection

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Arnold Schwarzenegger
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July 23, 2009

Mail-Out #MSC 09-23

TO: All Interested Parties

SUBJECT: WORKSHOP TO CONSIDER DEVELOPMENT OF A "COOL CARS"
PERFORMANCE-BASED TEST PROCEDURE FOR 2016 AND
SUBSEQUENT MODEL YEAR VEHICLES

The Air Resources Board (the Board or ARB) staff invites you to participate in a public workshop on September 17, 2009, in El Monte, California, to discuss the development of a performance-based test procedure to demonstrate solar heat gain reductions in vehicles. This is the first workshop since the Board approved the "Cool Cars" regulation and tasked staff with developing a test procedure that would provide the automotive manufacturers the option of meeting the solar heat reduction equivalent to that provided by glass that is capable of blocking 60 percent of the sun's radiation beginning with the 2016 model year.

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

DATE: September 17, 2009

TIME: 1:00 - 4:00 PM

PLACE: California Air Resources Board - Conference Room 100 Annex 3
9530 Telstar Avenue
El Monte, CA 91731

TELECONFERENCE LINE: ARB will establish a teleconference line for interested parties unable to personally attend the upcoming workshop. In order to determine how many lines should be made available, ARB is requesting that those wishing to participate by telephone submit a request for a conference line. Please submit your request by September 4 to Ms. Irma Ramirez, Secretary, Emission Research and Regulatory Development Branch by phone at (626) 575-6632 or by e-mail at iramirez@arb.ca.gov.

*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

Background

Assembly Bill 32, signed into law in 2006, directs ARB to reduce California's greenhouse gas emissions from virtually all sources. Greenhouse gases such as carbon dioxide (CO₂) are emitted when petroleum products are burned. Greater fuel consumption translates directly into greater CO₂ emissions. The use of air conditioners in motor vehicles substantially increases vehicular fuel consumption. Therefore, one way to reduce the CO₂ emissions from motor vehicles is to reduce air conditioner use by lowering the heat gain from cars parked in the sun through a variety of solar management technologies.

The "Cool Cars" regulation, approved by the Board on June 25, 2009, aims to reduce the solar heat gain of vehicles parked in the sun by requiring manufacturers to equip new vehicles with solar control glazing. Specifically, beginning in model year 2012, manufacturers must use solar control windshields that block at least 50 percent of the solar heat gain; side and back windows that block 40 percent of the solar heat gain; and roofrites that block 70 percent of the solar heat gain.

Beginning with model year 2016, further control of solar heat gain is required. For this second tier of the regulation, reductions in solar heat gain can be achieved either through solar control of all glazing blocking 60 percent of the heat gain or through a performance-based option using a combination of solar control technologies resulting in equivalent solar performance achievable by the glazing alone. In addition to solar control glazing, several approaches to reducing solar heat gain have been identified, including solar reflective paints, passive or active ventilation systems, solar reflective or thermoregulating materials, and vehicle insulation. These and other technologies will be explored as a potential means to meet a performance-based option.

The Workshop

The purpose of the workshop is to inform interested parties about the "Cool Cars" regulatory requirements, solicit input from affected parties as to the most effective way to craft the performance-based option and associated procedures, and discuss related issues. Additional background materials and a workshop agenda will be available at the workshop and on ARB's cool cars website at <http://www.arb.ca.gov/cc/cool-cars/cool-cars.htm> at least one day prior to the workshop or may be requested from Ms. Irma Ramirez (see contact information on previous page).

It is staff's intent to minimize CO₂ emissions at the outset by minimizing postal mailings for this regulation. Thus, ARB encourages you to sign up to receive email notification for this and other climate change activities at <http://www.arb.ca.gov/listserv/cc.htm>. For this specific item, select the "Cool Cars" list. To continue to receive hard-copy notifications for this item, you must specifically request to do so. Requests can be

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made at the workshop, or by contacting Dr. Leela Rao at lrao@arb.ca.gov or (626) 350-6469.

Additional Information

ARB staff is soliciting comments and questions from interested stakeholders before the workshop takes place. Stakeholders are also encouraged to present comments at the workshop, and in writing or by e-mail at any time. Comments or questions can be directed to Dr. Rao. Please also send a copy of any comments to Ms. Sharon Lemieux, Manager, at sclermieu@arb.ca.gov. Comments may also be faxed to (626) 459-4480.

If you require special accommodations or language needs, please contact Dr. Rao as soon as possible, but no later than 10 business days before the scheduled event/meeting. TTY/TDD/Speech to Speech users may dial 711 for the California Relay Service.

Sincerely,

/s/

Robert H. Cross, Chief
Mobile Source Control Division

cc: Mr. Tom Cackette
Chief Deputy Executive Officer