



# Air Resources Board



**Matthew Rodriguez**  
Secretary for  
Environmental Protection

**Mary D. Nichols, Chairman**  
9480 Telstar Avenue, Suite 4  
El Monte, California 91731 • [www.arb.ca.gov](http://www.arb.ca.gov)

**Edmund G. Brown Jr.**  
Governor

June 15, 2012

Dear Sir or Madam:

The California Air Resources Board (ARB or Board) staff is holding a public workshop to discuss a draft regulatory proposal for amendments to regulations for the California Reformulated Gasoline (CRFG) and California Diesel Fuel (CDF) programs.

The time and place for the meeting are as follows:

**DATE:** Wednesday, July 11, 2012  
**TIME:** 10:00 a.m. to Noon, PDT.  
**PLACE:** California Air Resources Board  
9530 Telstar Ave  
El Monte, CA 91731

**TELECONFERENCE:**

To participate via teleconference/webinar, please contact Judson Cohan at [jcohan@arb.ca.gov](mailto:jcohan@arb.ca.gov) or (626) 575-6792 no later than July 5<sup>th</sup>. The teleconference/webinar information will be posted on [http://www.arb.ca.gov/fuels/gasoline/meeting/mtg2012\\_2013.htm](http://www.arb.ca.gov/fuels/gasoline/meeting/mtg2012_2013.htm) no later than June 29<sup>th</sup>, 2012.

ARB staff is proposing that the Board consider the adoption of three new fuel test methods:

- Trace levels of MTBE and other prohibited oxygenates in CRFG
- Benzene and total aromatics in denatured ethanol
- Olefins in denatured ethanol

Staff is also proposing to update the following test methods to the most recent available versions:

- Benzene and total aromatics in CRFG
- Oxygenates in CRFG
- Olefins in CRFG
- Aromatics and PAH in CDF

*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

All Fuel Stakeholders

Page 2 of 4

Staff is also proposing the removal of an obsolete test method for measuring sulfur in CRFG.

This workshop will include a presentation by staff on the proposed regulation, followed by a question and answer period. Copies of the draft regulatory language and supporting documents, and a Workshop Agenda will be posted on the Reformulated Gasoline web page at [http://www.arb.ca.gov/fuels/gasoline/meeting/mtg2012\\_2013.htm](http://www.arb.ca.gov/fuels/gasoline/meeting/mtg2012_2013.htm) by June 26, 2012.

Meeting locations are accessible to persons with disabilities. If you have special accommodation or language needs, please contact William Valdez at (626) 575-6859 as soon as possible. TTY/TDD Speech-to-Speech users may dial 7-1-1 for the California Relay Service.

If you cannot attend the meeting and have questions regarding this workshop, please contact Judson Cohan at (626) 575-6792 or via email at [jcohan@arb.ca.gov](mailto:jcohan@arb.ca.gov), or William Yates at (626) 575-6825 or via email at [w Yates@arb.ca.gov](mailto:w Yates@arb.ca.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Rieger', with a stylized flourish at the end.

Paul Rieger, Chief  
Southern Laboratory Branch  
Monitoring and Laboratory Division

Attachment

Outline of ARB Presentation for Public Workshop on Amendments to Regulations for California Reformulated Gasoline (CRFG) and California Diesel Fuel (CDF)

- I. Phase 3 CRFG regulations
  - A. Prohibition of oxygenates (C1-C5 alcohols and various ethers) other than ethanol
  - B. Denatured ethanol specifications
- II. Oxygenate test method
  - A. Current method's limit of quantitation is not low enough to enforce the 500 ppm limit on prohibited oxygenates
  - B. ASTM D7754-11 can measure all oxygenates of interest at 50 ppm
- III. Denatured ethanol methods
  - A. Olefins and aromatics are present in fuel ethanol due to the denaturant
  - B. The regulations currently provide no means for a downstream user to determine whether denatured ethanol complies with the specifications for benzene, total aromatics and olefins
  - C. ASTM D7347-07 and D7576-10 measure olefins and benzene and total aromatics, respectively, in denatured ethanol
  - D. Proposal: allow the use of these methods as an alternative to analyzing the denaturant
- IV. Updates to existing methods (improvements)
  - A. D6550-10 (olefins in gasoline): CARB-specific information added
  - B. D4815-99 (oxygenates in gasoline): corrected mistakes in previous version
  - C. D5580-07 (benzene and aromatics in gasoline): new precision statement

All Fuel Stakeholders

Page 4 of 4

- D. D5186-09 (aromatics in diesel): streamlined quality control procedures
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- V. Removal of D2622-94 (sulfur in gasoline)
    - A. Method is obsolete and does not have the sensitivity needed for phase 3 RFG
    - B. A survey of California refiners indicated that no one is currently using this method
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- VI. Estimated costs
    - A. D7754-11 costs about \$70K new, or about \$15K to upgrade an existing gasoline GC
    - B. D7347-07 costs about \$50K new, or about \$1K to upgrade an existing gasoline SFC
    - C. D7576 costs about \$50K new, no upgrade necessary for an existing gasoline GC
    - D. Note: California regulations do not require any testing