State of California
AIR RESOURCES BOARD

CALIFORNIA EXHAUST EMISSION STANDARDS AND TEST PROCEDURES
FOR 2005 AND LATER SMALL OFF-ROAD ENGINES

Adopted: July 26, 2004
Amended: February 24, 2010

NOTE: This document is printed in a style to indicate changes from the existing provisions.

All existing language in Subpart B and Subpart D is indicated by plain type. All proposed additions to language in Subpart B and Subpart D are indicated by underlined text. All proposed deletions to language are indicated by strikeout. Only those portions containing the suggested modifications from the existing language are included. All other portions remain unchanged and are indicated by the symbol "*   *   *   *   *" for reference.

The numbering convention employed in this document, in order of priority, is: I.1.a.1.i.A.

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The following provisions of Part 90, Title 40, Code of Federal Regulations, as adopted or amended by the United State Environmental Protection Agency on the date listed, are adopted and incorporated herein by this reference for 2005 model year and later small off-road engines as the California Exhaust Emission Standards and Test Procedures for 2005 and Later Small Off-Road Engines, except as altered or replaced by the provisions set forth below.

PART 90 – CONTROL OF EMISSIONS FROM NONROAD SPARK-IGNITION ENGINES

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Subpart B – Emission Standards and Certification Provisions

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§ 90.107 Application for certification.

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 (d)   (12) Projected California sales data of the engine family for which certification is requested. Such estimated sales data must include an explanation of the method used to make the estimate.
        (13) For zero-emission small off-road equipment, the certification application shall include the following:
                (i)   Identification and description of the equipment covered by the application.
                (ii)   Identification of the power source system weight (e.g., battery weight) and gross equipment weight rating of the equipment.
                (iii)   Identification and description of the power source system for the equipment.
                (iv)   Results of energy density test.
                (iv)   Projected California sales.
                (vi)   All information necessary for proper and safe operation and maintenance of the equipment, including recharging information and other relevant information as determined by the Executive Officer.
                (vii) A copy of the owner's manual must be submitted during certification for approval by the Executive Officer. The manual must include the information as required by subsections (i), (ii), (iii), and (vi) above.

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Subpart D – Emission Test Equipment Provisions

§ 90.308 Lubricating oil and test fuels.

*   *   *   *   *

(b)   (1)   DELETE,
REPLACE WITH:
(b)   (1)   (i)   (A)   Except as allowed in (B), tThe certification test fuel used for emission testing must be consistent with the fuel specifications as outlined in the California Code of Regulations, Title 13, Section 1960.1, and the latest amendment of the "California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles", incorporated by reference herein. The test fuel specification should remain consistent from batch to batch. If a particular engine requires a different octane (or cetane) fuel, test records should indicate the fuel used.
          (B)   A manufacturer may choose to use a test fuel with up to ten percent ethanol by volume for certification testing, provided that the same fuel has been approved for federal certification testing.
          (ii)   Alcohol-based fuels. Alcohol-based fuels must be allowed for emission test purposes when the appropriate emission standards with respect to such fuels are a part of these provisions. Such fuels must be as specified in subparagraph (b)(1)(i) above.

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