

ATTACHMENT B

State of California
AIR RESOURCES BOARD

CALIFORNIA EXHAUST EMISSIONS STANDARDS AND TEST PROCEDURES FOR 1997 AND LATER OFF-HIGHWAY RECREATIONAL VEHICLES AND ENGINES

Adopted: November 22, 1994
Amended: October 22, 1999
Amended: June 1, 2007
Amended: October 25, 2012
Amended: Insert Adoption Date

Note: The following text contains staff's modifications to these test procedures. The 15-day proposed modifications made available with the 15-day notice are shown in double underline to indicate additions and ~~double-strikeout~~ to indicate deletions. Staff is proposing modifications to limited portions of the original proposal; for some portions of the original proposal for which no modifications are proposed, the text has been omitted and the omission indicated by " * * * . "

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**CALIFORNIA EXHAUST EMISSIONS STANDARDS AND TEST
PROCEDURES
FOR 1997 AND LATER
OFF-HIGHWAY RECREATIONAL VEHICLES AND ENGINES**

Subpart E. General Provisions for Emission Regulations for 1978 and Later New Motorcycles.

Sec. 86.410-90 Emission standards for 1990 and later model year motorcycles.

(a)(1) Unless otherwise specified in California Code of Regulations, Title 13, section 2412, exhaust ~~Exhaust~~ emissions from 1997 and later off-road motorcycles and all-terrain vehicles with engines greater than 90 cc must not exceed:

- (i) Hydrocarbons. 1.2 grams per vehicle kilometer. Compliance is based on a manufacturer's corporate average basis, as provided in (b) below.
- (ii) Carbon Monoxide. 15.0 grams per vehicle kilometer.

(2) Unless otherwise specified in California Code of Regulations, Title 13, section 2412, exhaust ~~Exhaust~~ emissions from 1999 and later off-road motorcycles and all-terrain vehicles with engines 90 cc or less must not exceed:

- (i) Hydrocarbons. 1.2 grams per vehicle kilometer. Compliance is based on a manufacturer's corporate average basis, as provided in (b) below.
- (ii) Carbon Monoxide. 15.0 grams per vehicle kilometer.

(3) Unless otherwise specified in California Code of Regulations, Title 13, section 2412, exhaust ~~Exhaust~~ emissions from 2007 and later off-road sport vehicles, off-road utility vehicles, and sand cars must not exceed:

- (i) Hydrocarbons. 1.2 grams per vehicle kilometer. Compliance is based on a manufacturers corporate average basis, as provided in (b) below.
- (ii) Carbon Monoxide. 15.0 grams per vehicle kilometer.

(4) The standards set forth in paragraphs (a)(1), (a)(2), and (a)(3) of this section refer to the exhaust emitted over driving schedules as set forth in subpart F and measured and calculated in accordance with those procedures.

(b) Compliance with a standards to be applied as a "corporate average" shall be determined as follows:

$$\frac{\sum_{j=1}^n (PROD)_{jx} (STD)_{jx}}{\sum_{j=1}^n (PROD)_{jx}} = STD_{ca}$$

n = Off-highway recreational vehicle engine families.

PROD_{jx} = Number of units in engine family j produced for sale in California in model year x.

STD_{jx} = The manufacturer designated ~~HC~~ exhaust emission standard for engine family j in model year x, which shall be determined by the manufacturer subject to the following conditions: (1) no individual engine family exhaust emission standard shall exceed ~~2.5 g/km~~ 10 g/km HC or 20 g/km HC+NOx, and (2) no engine family designation or engine family exhaust emission standard shall be amended in a model year after the engine family is certified for the model year, and (3) prior to sale or offering for sale in California, each engine family shall be certified in accordance with these test procedures, and shall be required to meet the manufacturer's designated HC exhaust emission standard as a condition of the certification Executive Order, and (4) zero emission off-road vehicles shall be assigned an HC or HC + NOx exhaust emission standard of negative 1 (-1). Prior to certification the manufacturer shall also submit estimated production volumes for each engine family to be offered for sale in California.

STD_{ca} = A manufacturer's corporate average HC exhaust emissions from those California off-road motorcycles and all-terrain vehicles subject to the California corporate average HC exhaust emissions standard, as established by an Executive Order certifying the California production for the model year. This order must be obtained prior to the issuance of certification Executive Orders for individual engine families for the model year and shall include but not be limited to the following requirements:

(1) During the manufacturer's production year, for each vehicle produced for sale in California, the manufacturer must provide the following information to the Executive Officer within 30 days after the last day in each calendar quarter:

- (i) vehicle identification numbers and an explanation of the identification code if applicable;
- (ii) model number and engine size of vehicle;

(iii) the total number of vehicles marketed and produced for sale in California and their applicable designated emissions standards;

(2) The manufacturer's average HC exhaust emissions shall meet the corporate average standard at the end of the manufacturer's production for the model year.

(3) Production and sale of vehicles which result in noncompliance with the California standard for the model year shall cause a manufacturer to be subject to civil penalties, according to applicable provisions of the Health and Safety Code. All excess emissions resulting from non-compliance with the California standard shall be made up in the following model year.

(4) For a period of up to one year following the end of the model year, for each model the manufacturer shall submit California sales and registration data as it becomes available.

(c) As an option to the standards set forth in section (a)(1) above, exhaust emissions from 1997 and later all-terrain vehicle engines and 2007 and later off-road sport vehicles, off-road utility vehicles, and sand cars must not exceed the applicable HC+NO_x standard in Section 2412(b), CCR, Title 13, using the test procedures set forth in "California Exhaust Emission Standards and Test Procedures for 1995-2004 Small Off-Road Engines", adopted March 20, 1992, and last amended July 26, 2004, which is hereby incorporated by reference herein. Compliance with the optional HC+NO_x standard is based on a manufacturer's corporate average basis, as provided in Section 2412(d), CCR, Title 13.

(d)(1) Emissions from 1997 and later model year golf carts operating in federal ozone non-attainment areas of California must not exceed zero grams hydrocarbon, carbon monoxide, oxides of nitrogen, and particulate matter.

(2) These vehicles must be certified by the Executive Officer pursuant to all applicable regulations set forth in CCR, Title 13, Chapter 9. Emission test procedures are not applicable to these vehicles.

(3) On or after January 1, 1997, manufacturers must not produce for sale in federal ozone non-attainment areas of California new nonzero emission engines for use in golf carts.

(e)(1) As an option to the standards set forth in section (a) above, off-road motorcycles and ATVs of model year 2003 through 2021, and engines used in such vehicles, that do not meet the emissions standards in section (a) may operate only during certain periods at certain off-highway vehicle (OHV) riding areas until January 1, 2025. CCR, Title 13, Chapter 9, Article 3, Section 2415 lists these California OHV riding areas and their associated riding seasons for off-highway recreational vehicles that are subject to use restrictions.

(2) These vehicles must be certified by the Executive Officer pursuant to all applicable regulations set forth in CCR, Title 13, Chapter 9. Emission testing is not applicable to these vehicles.

(f) No crankcase emissions shall be discharged into the ambient atmosphere from the following vehicle or from engines used in such vehicles:

(1) 1997 and later off-road motorcycles, all-terrain vehicles, and golf carts;

(2) 2007 and later off-road sport vehicles, off-road utility vehicles, and sand cars.

(g) The Executive Officer may find that any off-road motorcycles, all-terrain vehicles, off-road sport vehicles, off-road utility vehicles, sand cars or engines used in such vehicles certified to comply with California emission standards and test procedures for on-road or other off-road applications are in compliance with these regulations.
