

## APPENDIX V

### 15-Day Modifications to the Original Proposal

#### Title 13 California Code of Regulations

#### CALIFORNIA EXHAUST EMISSION STANDARDS AND TEST PROCEDURES FOR NEW 2013 AND LATER SMALL OFF-ROAD ENGINES – PART 1054

NOTE: This appendix shows staff's proposed modifications to the regulatory amendments adopted by the Air Resources Board on December 16, 2011, in accordance with Resolution 11-41. All existing regulatory language is indicated by plain type. Staff's originally proposed additions to the regulatory language, as specified in Appendix H of the Staff Report: Initial Statement of Reasons, are shown in underlined text and staff's originally proposed deletions are shown in ~~strikeout~~. Staff's incorporation of proposed modifications to the original proposal, as described in Attachment G of Resolution 11-41 and via conforming modifications thereof, and as directed by the Board on December 16, 2011, are shown in double underlined text to indicate additions and ~~double strikeout~~ text to indicate deletions. Only these double underlined and ~~double strikeout~~ modifications are subject to comment during this comment period. " \* \* \* \* " are provided for reference to indicate portions of the existing regulations for which amendments were not proposed in the original proposal and for which modifications are also not proposed with this Notice of Modified Text.

\* \* \* \* \*

## Subpart B—Emission Standards and Related Requirements

§ 1054.101 What emission standards and requirements must my engines meet?

(a) DELETE,  
REPLACE WITH:

(a) (1) *Exhaust emissions.* All engines must meet the requirements in §1054.115. Exhaust emissions from small off-road spark-ignition engines manufactured for sale, sold, offered for sale in California, or that are introduced, delivered or imported into California for introduction into commerce, must not exceed:

Exhaust Emission Standards for Spark-Ignition Engines  
(grams per kilowatt-hour)

Model Year	Displacement Category	Durability Periods (hours)	Hydrocarbon plus Oxides of Nitrogen <sup>(1)(3)</sup>	Carbon Monoxide	Particulate
2005 and subsequent	<50 cc	50/125/300	50	536	2.0 <sup>(2)</sup>
	50-80 cc, inclusive	50/125/300	72	536	2.0 <sup>(2)</sup>
2008 and subsequent	>80 cc - <225 cc	125/250/500	10.0	549	
	≥ 225 cc	125/250/500/1000	8.0	549	

(1) The Executive Officer may allow gaseous-fueled (i.e., propane, natural gas) engine families, that satisfy the requirements of the regulations, to certify to either the hydrocarbon plus oxides of nitrogen or hydrocarbon emission standard, as applicable, on the basis of the non-methane hydrocarbon (NMHC) portion of the total hydrocarbon emissions.

(2) Applicable to all two-stroke engines.

(3) Engines used exclusively to power products which are used exclusively in wintertime, at the option of the engine manufacturer, may comply with the provisions in ~~section 90.103(a)(2)(ii)~~ Part 1054.101(a)(2)(ii).

\* \* \* \* \*

§ 1054.105 What exhaust emission standards must my nonhandheld engines meet?

(a) DELETE,  
REPLACE WITH:

*Emission standards.* Exhaust emissions from your engines may not exceed the emission standards ~~in Title 13, California Code of Regulations, Chapter 9, Article 4, Section 2403~~ that are specified in §1054.101. Measure emissions using the applicable steady-state test procedures described in subpart F of this part.

\* \* \* \* \*

§ 1054.115 What other requirements apply?

\* \* \* \* \*

(c) DELETE,  
REPLACE WITH:

*Altitude adjustments.* Engines must meet applicable emission standards for valid tests conducted under the ambient conditions specified in 40 CRF 1065.520.

~~Aside from engines that must meet the standards at or above barometric pressures or 96.0 kPa in the standard configuration and are not required to meet emission standards at lower barometric pressures, engines must meet applicable emission standards at all specified atmospheric pressures, except that for atmospheric pressures below 94.0 kPa you may rely on an altitude kit for all testing if you meet the requirements specified in §1054.205(r).~~ Engines must meet applicable emission standards at all specified atmospheric pressures except: (i) engines with displacements ≤80 cc for atmospheric pressures below 96.0 kPa; and, (ii) engines with displacements >80 cc may rely on an altitude kit for atmospheric pressures below 94.0 kPa if you meet the requirements specified in 1054.205(r). If you rely on an altitude kit for certification, you must identify in the owners manual the altitude range for which you expect proper engine performance and emission control with and without the altitude kit; you must also state in the owners manual that operating the engine with the wrong engine configuration at a given altitude may increase its emissions and decrease fuel efficiency and performance. In your application for certification, identify the altitude above which you rely on an altitude kit to meet emission standards and describe your plan for making information and parts available such that you would reasonably expect that altitude kits would be widely used at all such altitudes.

\* \* \* \* \*