

## **APPENDIX F**

# **FINAL REGULATION ORDER SUMMARY & RATIONALE**

### **Recreational Marine Spark-Ignition Engines**

- **Title 13, California Code of Regulations**
- **Test Procedures**

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## **SUMMARY AND RATIONALE FOR SPARK-IGNITION MARINE ENGINE REGULATIONS AND TEST PROCEDURES**

Note: This appendix provides a summary of, and the rationale for, the spark-ignition marine engine regulations and test procedures amendments approved by the Air Resources Board on December 16, 2011, and with subsequent conforming modifications authorized under Resolution 11-41. Revisions to the original summary and rationale document published on October 26, 2011, as part of the Staff Report: Initial Statement of Reasons, are indicated either by underlined type to indicate additions (except that some existing headings within the document were underlined originally for emphasis, and remain so, and thus do not constitute new language) or by ~~strikeout~~ to indicate deletions.

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## Summary and Rationale for Proposed Regulations

### **2447. California Exhaust Emission Standards and Test Procedures for 2001 Model Year and Later Spark-Ignition Marine Engines.**

The purpose of this section is to identify and to incorporate by reference the required test procedures to be used for demonstrating compliance with the applicable emission standards of the spark-ignition marine engine category, which is necessary to control the hydrocarbon, carbon monoxide, and oxides of nitrogen emissions from these sources. The amendment clarifies the most recent amendment date to this test procedure document.

### **California Exhaust Emission Standards and Test Procedures for 2001 Model Year and Later Spark-Ignition Marine Engines.**

The purpose of this test procedure is to identify the exhaust emission standards and test procedures applicable for spark-ignition marine engines, which is necessary to control the hydrocarbon and carbon monoxide emissions from these sources. This test procedure is incorporated by reference in section 2447, title 13, California Code of Regulations.

## **Part III. Emission Test Equipment Provisions.**

### **44. Lubricating Oil and Test Fuel.**

The purpose of this section is to identify the fuel and engine lubricant specifications that are to be used for certification testing. This section was amended to allow spark-ignition marine engine manufacturers the optional use of the new California 10-percent ethanol-blend gasoline (E10), or other ARB-certified certification test fuel, which ARB will adopt for 2015 and subsequent model on-road motor vehicles, for 2013 through ~~2018~~ 2019 model-year vessels and engines. Use of ~~this E10, or other ARB-certified certification~~ test fuel, will become mandatory beginning with the ~~2019~~ 2020 model year. The proposed optional and required use of ~~this E10, or other ARB-certified certification~~ test fuel, is applicable to only exhaust emission test purposes.

(b)(1)

(iA) The purpose of this subsection is to identify the fuel to be used for certification testing of current production spark-ignition marine engines. This subsection was amended for formatting reasons, and has been lettered in accordance with current ARB hierarchical numbering/lettering practices.

(iiB) The purpose of this new subsection is to provide manufacturers the alternative of using the new California 10-percent content of ethanol-blend gasoline (E10), or other ARB-certified ~~certification~~ test fuel, for model years 2013-2018 2019. This new subsection has been lettered in accordance with current ARB hierarchical numbering/lettering practices.

~~(b)(2)~~(C) The purpose of this new subsection is to require the new California 10-percent content of ethanol-blend gasoline (E10), or other ARB-certified ~~certification~~ test fuel, for all ~~2019~~ 2020 and later model-year spark-ignition marine engines. This new subsection has been lettered in accordance with current ARB hierarchical numbering/lettering practices.