

## **APPENDIX B**

# **CERTIFICATION PROCEDURE FOR PORTABLE OUTBOARD MARINE TANKS AND COMPONENTS**

California Environmental Protection Agency

---



**Certification Procedure for  
Portable Outboard Marine Tanks and Components**

**CP-510**

Adoption [Date](#): [To be determined]

## Table of Contents

<b>1. GENERAL INFORMATION AND APPLICABILITY .....</b>	<b>3</b>
<b>1.1 Requirement to Comply with Other Applicable Codes and Regulations.....</b>	<b>3</b>
<b>2. CERTIFICATION REQUIREMENTS.....</b>	<b>3</b>
<b>2.1 Portable Outboard Marine Tanks .....</b>	<b>4</b>
<b>2.2 Portable Outboard Marine Tank Fuel Hoses .....</b>	<b>4</b>
<b>2.3 Portable Outboard Marine Tank Primer Bulbs.....</b>	<b>4</b>
<b>2.4 Portable Outboard Marine Tank Self Sealing Caps .....</b>	<b>4</b>
<b>2.5 Warranty .....</b>	<b>5</b>
<b>2.6 Operating and Maintenance Instructions .....</b>	<b>5</b>
<b>3. SUBMITTING AN APPLICATION.....</b>	<b>6</b>
<b>4. APPLICATION REVIEW AND ACCEPTANCE.....</b>	<b>8</b>
<b>5. ENGINEERING EVALUATION .....</b>	<b>8</b>
<b>6. ALTERNATE TEST AND INSPECTION PROCEDURES.....</b>	<b>9</b>

**California Environmental Protection Agency  
Air Resources Board**

**DRAFT CP-510**

**Certification Procedure for  
Portable Outboard Marine Tanks and Components**

The definitions in Section 2468.10, Title 13 of the California Code of Regulations (CCR) apply to this Certification Procedure. For purposes of this Procedure, the term "ARB" refers to the California Air Resources Board.

**1. GENERAL INFORMATION AND APPLICABILITY**

This document specifies the criteria and procedures used by ARB to evaluate and certify portable outboard marine tanks, portable outboard marine tank self sealing caps, portable outboard marine tank fuel hoses, or portable outboard marine tank primer bulbs manufactured for sale, advertised for sale, sold, or offered for sale in California or that are introduced, delivered or imported into California for introduction into commerce. An Executive Order will only be issued for a portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb that demonstrates compliance with all applicable certification requirements.

**1.1 Compliance with Other Applicable Codes and Regulations**

Compliance with the Performance, Certification or Compliance Standards in this Section does not exempt portable outboard marine tanks, portable outboard marine tank self sealing caps, portable outboard marine tank fuel hoses, or portable outboard marine tank primer bulbs from compliance with other applicable federal and state statutes and regulations such as state fire codes, safety codes, and other safety regulations, nor will the Air Resources Board test for or determine compliance with such other statutes or regulations.

**2. CERTIFICATION REQUIREMENTS**

The application for certification shall include test results for each test specified in Air Resources Board "Test Procedure TP-511 Diurnal Rate from Portable Outboard Marine Tanks", adopted ([DATE](#)) and Air Resources Board Test Procedure TP-512 Permeation Rate From Portable Outboard Marine Tank Fuel Hoses and Portable Outboard Marine Tank Primer Bulbs", adopted ([DATE](#)) or comparable federal test results described in 72-FR-28098, adopted ([DATE](#)) which are incorporated by reference herein.

Testing for portable outboard marine tank certification shall be conducted using six (6) portable outboard marine tanks plus one (1) additional portable outboard marine tank for use as a trip blank of the same product family. Testing for portable

outboard marine tank fuel hose and portable outboard marine tank primer bulb certification shall be conducted using six (6) samples of portable outboard marine tank fuel hose and six (6) portable outboard marine tank primer bulbs of the same product family. An accredited independent test laboratory shall conduct all testing. For purposes of this requirement, an accredited independent test laboratory is one that is not owned, operated or affiliated with the applicant seeking an Executive Order. The performance requirements are included in Table 2.

## **2.1 Portable Outboard Marine Tanks**

2.1.1 On or after January 1, 2011, portable outboard marine tanks with a rated capacity of thirty (30) gallons or less shall:

- (a) Be equipped with a Portable Outboard Marine Tank Self Sealing Cap.
- (b) Not include a Manual Vent.
- (c) Not exceed an emission rate of 1.5 grams/m<sup>2</sup>/day as demonstrated through Air Resources Board "Test Procedure TP-511 Diurnal Rate from Portable Outboard Marine Tanks", adopted ([DATE](#)) or comparable federal test results described in 72-FR-28098, adopted ([DATE](#)).

## **2.2 Portable Outboard Marine Tank Fuel Hoses**

2.2.1 On or after January 1, 2010, portable outboard marine tank fuel hoses shall:

- (a) Not exceed a permeation rate of 15 grams/m<sup>2</sup>/day as demonstrated through Air Resources Board "Test Procedure TP-512 Permeation Rate from Portable Outboard Marine Tank Fuel Hoses and Portable Outboard Marine Tank Primer Bulbs", adopted ([DATE](#)) or comparable federal test results described in 72-FR-28098, adopted ([DATE](#)).

## **2.3 Portable Outboard Marine Tank Primer Bulbs**

2.3.1 On or after January 1, 2011, portable outboard marine tank primer bulbs shall:

- (a) Not exceed a permeation rate of 15 grams/m<sup>2</sup>/day as demonstrated through Air Resources Board "Test Procedure TP-512 Permeation Rate from Portable Outboard Marine Tank Fuel Hoses and Portable Outboard Marine Tank Primer Bulbs", adopted ([DATE](#)) or comparable federal test results described in 72-FR-28098, adopted ([DATE](#)).

## **2.4 Portable Outboard Marine Tank Self Sealing Caps**

2.4.1 On or after January 1, 2010, portable outboard marine tank self sealing

caps shall:

- (a) Automatically close and seal up to a pressure of 5 psig.

## **2.5 Warranty**

- (a) An applicant seeking an Executive Order pursuant to this article must warrant its portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb as free from defects in materials and workmanship that cause such components to fail to conform to any of the certification and compliance standards for a period of one year from the date of sale.
- (b) An applicant must supply a copy of the warranty language specified in section (a) above in the packaging for each portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb at the time of sale identifying the following minimum requirements:
  - (1) A statement of the terms and length of the warranty period;
  - (2) An unconditional statement that the portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb is certified to California requirements; and
  - (3) A listing of the specific certification requirements or limitations to which it was certified.

## **2.6 Operating and Maintenance Instructions**

All applicants shall submit a copy of the operating and maintenance instructions that shall be attached to each portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb at the time of purchase by a consumer.

**Table 2  
Performance Requirements**

<b>Portable Outboard Marine Tank</b>		
<b>Performance Type</b>	<b>Requirement</b>	<b>Effective Date</b>
Self Sealing Cap	Automatically Closes and Seals	January 1, 2010
Emission Rate	$\leq 1.5 \text{ grams/m}^2/\text{day}$	January 1, 2011
<b>Portable Outboard Marine Tank Fuel Hose &amp; Portable Outboard Marine Tank Primer Bulb</b>		
<b>Performance Type</b>	<b>Requirement</b>	<b>Effective Date</b>
Fuel Hose Permeation Rate	$\leq 15 \text{ grams/m}^2/\text{day}$	January 1, 2010
Primer Bulb Permeation Rate	$\leq 15 \text{ grams/m}^2/\text{day}$	January 1, 2011

### **3. SUBMITTING AN APPLICATION**

An applicant shall submit the following information in its application for certification:

- 3.1** Model number(s) and size(s) of the portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb for which certification is requested. The applicant shall supply test data that demonstrates the portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb complies with each of the certification requirements identified in Section 2.
- 3.2** Engineering drawings of the portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb detailing dimensions specific to each component. If more than one type or size of a portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb is included in the application, separate dimensioned drawings are required.
- 3.3** A sample of the portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb.

- 3.4** Test results obtained from Air Resources Board “Test Procedure TP-511, Diurnal Rate from Portable Outboard Marine Tanks”, adopted (DATE) and test results obtained from Air Resources Board “Test Procedure TP-512, Permeation Rate from Portable Outboard Marine Tank Fuel Hoses and Portable Outboard Marine Tank Primer Bulbs”, adopted (DATE) or comparable federal test results described in 72-FR-28098, adopted (DATE).
- 3.5** Any other test results or data that supports the requirements in Section 3.4 above that would assist in the determination of certification.
- 3.6** The language, symbols, or patterns that will be permanently embossed or printed on the portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb. This shall include examples of date code wheels as well as other permanent markings and their locations on the portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb. Once an executive order is issued, these permanent markings cannot be altered without first obtaining approval of the ARB Executive Officer.
- 3.7** The language or label(s) that may be affixed to the portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb at the time of sale.
- 3.8** The manufacturer’s recommended instructions, instruction decals, or other types of placards attached to the portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb at the time of sale. Include examples of actual decals or placards if available. Proposed placards or decals are sufficient if actual samples are not available. Once an executive order is issued, these decals or placards cannot be altered without first obtaining the approval of the ARB Executive Officer.
- 3.9** The manufacturer’s warranty(s) as defined in section 2.3.
- 3.10** A description of the materials used in the construction of the portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb. Material compositions of gaskets, O-rings and seals must be described.
- 3.11** If the applicant is not the manufacturer of all system components incorporated in a portable outboard marine tank system, then the applicant must provide a list identifying the manufacturer of each of the components in the system.
- a) If the component(s) requested for inclusion in certification have not been previously incorporated into a portable outboard marine tank, portable



outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb that has been issued an executive order pursuant to these procedures, each of the component(s) is subject to each of the application and test requirements specified in this CP-510.

#### **4. APPLICATION REVIEW AND ACCEPTANCE**

- 4.1** An application for certification shall be deemed complete after it is determined to contain all information required by this procedure. The application shall not be deemed complete until each of the requirements listed in this procedure has been submitted for approval.
- 4.2** The Executive Officer may find it necessary to request additional information of the applicant in order to complete the application and/or evaluate a specific portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb.
- 4.3** Applications will be processed in accordance with the procedures and time periods set forth in 17 CCR section 60030 et seq. The time periods may be extended by the Executive Officer as deemed reasonable.
- 4.4** The application shall be signed by the applicant or by their authorized delegate.

#### **5. ENGINEERING EVALUATION**

The ARB Executive Officer shall evaluate each application for certification of a portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb to determine if the criteria for issuance of an executive order has been met.

- 5.1** Any portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb that does not comply with the requirements of this Certification Procedure shall be denied certification, and the application shall be returned to the applicant with reason(s) for denial. ARB will not evaluate an applicant's re-submittal of a portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank primer bulb application for certification unless the applicant can demonstrate that it has addressed and/or corrected deficiencies identified by ARB during the initial evaluation. The applicant must supply written notification to the Executive Officer to identify the deficiency(s) and remedy(s).
- 5.2** The portable outboard marine tank, portable outboard marine tank self sealing cap, portable outboard marine tank fuel hose, or portable outboard marine tank

primer bulb certification requirements submitted by the applicant shall be reviewed to ensure they conform to the certification requirements in Section 2 of this Procedure.

- 5.3 The procedures for, and results of, any bench test or operational test results contained in the application shall be reviewed to determine if such procedures comply with the required test methodology, and to ensure that the results comply with the certification requirements described in this Procedure.

## **6. ALTERNATE TEST AND INSPECTION PROCEDURES**

Test procedures other than those specified in this Certification Procedure may be used only if prior written approval is obtained from the Executive Officer. For purposes of this procedure, a test procedure is a methodology used to determine, with a high degree of accuracy, precision, and reproducibility, the value of a specified parameter. Once the test procedure is utilized to generate test data, the results are compared to the applicable certification requirements.

- 6.1 An applicant may request advance ARB Executive Officer approval to utilize an alternative test procedure. This request shall describe the proposed alternative test procedure, including equipment specifications necessary to conduct the test. If training is required to properly perform a test, a proposed training program shall be included.
- 6.2 The Executive Officer shall respond within sixty (60) days of receipt of a request and indicate that a formal response will be sent within one hundred twenty (120) days. This time period will allow for a detailed analysis of the proposed test procedure. If the Executive Officer determines that he or she cannot adequately evaluate the request within the specified time periods, he or she shall notify the applicant of said determination along with a projected date that a decision will be made.
- 6.3 All testing to determine the acceptability of the procedure shall be conducted by ARB staff, or by an independent test laboratory under the direction of ARB. Testing shall be conducted in accordance with good engineering judgement.
- 6.4 Test procedure approval shall be granted on a case-by-case basis, only after all necessary comparison testing has been conducted. Because of the evolving nature of technology and test procedures, such approval may or may not be granted in subsequent cases without a new request for approval and additional testing to determine equivalency.
- 6.5 Any approval to use alternate test procedures and the supporting evaluation test results shall be maintained by the Executive Officer.