



California Air Resources Board  
**Marine Notice 2014-1**



August 2014

**Advisory to Owners or Operators of Ocean-Going Vessels  
Visiting California Ports**

**Guidance for Complying with the California Ocean-Going Vessel Fuel  
Regulation<sup>1</sup> During the Air Resources Board Sunset Review Process**

The California Ocean-Going Vessel (OGV) Fuel Regulation includes a sunset provision<sup>2</sup> which states that the requirements of the California OGV Fuel Regulation will cease to apply if the United States adopts and enforces requirements that will achieve equivalent emissions reductions to the California OGV Fuel Regulation within Regulated California Waters (see Figure 1). The provision further states that the California OGV Fuel Regulation requirements will remain in effect until the Executive Officer issues written findings that the federal requirements will achieve equivalent emission reductions and are being enforced within Regulated California Waters.

In accordance with this provision, Air Resources Board (ARB) staff is conducting a sunset review as allowed by the California OGV Fuel Regulation. **During ARB staff's sunset review, which is expected to extend beyond January 2015, the California OGV Fuel Regulation will remain in effect and will continue to be enforced.** Vessel operators must ensure that they meet both the California OGV Fuel Regulation and the North American Emission Control Area (ECA Regulation)<sup>3</sup> requirements. We do not anticipate any undue difficulty for vessel operators to comply with the fuel sulfur content limit in both regulations during the sunset review because as of January 1, 2015 both regulations specify a fuel sulfur limit of 0.1%. However, there are provisions under the ECA Regulation that provide for alternative compliance options that are not specifically identified in the California OGV Fuel Regulation. The purpose of this advisory is to identify a compliance option under the California OGV Fuel Regulation that will allow

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<sup>1</sup> Fuel Sulfur and Other Operational Requirements for Ocean-Going Vessels within California Waters and 24 Nautical Miles of the California Baseline. title 13, California Code of Regulations (CCR) §2299.2 and title 17, CCR §93118.2.

<sup>2</sup> Subsection j(1) in both title 13 CCR §2299.2 and title 17 CCR §93118.2.

<sup>3</sup> On March 26, 2010, the International Maritime Organization (IMO) amended the International Convention for the Prevention of Pollution from Ships (MARPOL) designating specific portions of U.S. waters as an Emission Control Area (ECA). The area of the North American ECA includes waters adjacent to the Pacific coast, the Atlantic/Gulf coast and the eight main Hawaiian Islands. It extends up to 200 nautical miles from the United States coasts. The 2015 ECA fuel standard is 0.1 percent fuel sulfur (1,000 ppm).

vessels that are complying with the ECA Regulation to comply with the California OGV Fuel Regulation during the sunset review period.

**What is the scope and schedule for the ARB staff sunset review?**

Under the sunset review process, ARB staff will evaluate the emissions reductions achieved by the ECA Regulation and compare them to the emissions reductions achieved by the California OGV Fuel Regulation. This evaluation will take into consideration the exemptions, exceptions, and alternative technologies allowed under the ECA Regulation that are different from the specific fuel standards in the California regulation. Staff will also evaluate the extent to which the enforcement program implemented by U.S. Coast Guard and the U.S. Environmental Protection Agency will be as effective as the program being implemented to enforce the California OGV Fuel Regulation. Staff anticipates that this evaluation will be completed by April 2015.

**Are there provisions in the ECA Regulation that are not fully consistent with the California OGV Fuel Regulation?**

While the fuel sulfur limits under the California OGV Fuel Regulation and the ECA Regulation will be the same beginning January 2015, there are provisions in the ECA Regulation that are different from the California OGV Fuel Regulation. Examples of provisions in the ECA Regulation that do not have an identical match in the California OGV Fuel Regulation include:

- The ECA Regulation allows alternative emissions control technologies such as exhaust gas cleaning devices (“scrubbers”) to be used under Revised MARPOL Annex VI, Regulation 4, “Equivalents,”<sup>4</sup> in place of low sulfur fuel to achieve reductions in sulfur oxide emissions, while the California OGV Fuel Regulation does not have a similar provision; and
- The ECA Regulation only requires that a fuel meet the specified percent sulfur requirements, while the California OGV Fuel Regulation requires that the fuel also meet the specifications for distillate grades (marine gas oil or marine diesel oil).

**How does ARB staff plan to address situations where a vessel operator is complying with provisions in the ECA Regulation that are different than the California OGV Fuel Regulation?**

ARB staff will allow vessels complying with the ECA Regulation under the provisions mentioned above to comply with the California OGV Fuel Regulation by using the

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<sup>4</sup> International Maritime Organization, Annex 13, Resolution MEPC.176(58), adopted October 10, 2008, “Amendments to the Annex of the Protocol of 1997 to Amend the International Convention for the Prevention of Pollution from Ships, 1973, as Modified by the Protocol of 1978 Relating Thereto,” (Revised MARPOL Annex VI), Chapter 1, Regulation 4, “Equivalents.”

Temporary Experimental or Research Exemption or “Research Exemption” (subsection (c) (6) in both title 13, CCR, §2299.2 and title 17, CCR, §93118.2) during the sunset review period. A temporary Research Exemption will be granted for the duration of the sunset review to vessels that are in compliance with the ECA and whose operators notify ARB prior to entering California Regulated Waters that they will comply under the Research Exemption. To satisfy the requirements of the Research Exemption, vessel operators will need to provide information on their emission control strategy, including the following:

- For Vessel Operators Using Equivalent Alternative Emissions Control Technologies<sup>5</sup>:

Provide information describing the equivalent emissions control technology being employed (i.e. open and/or closed loop exhaust scrubber), and any available measurement data that the operator has on the emissions of diesel particulate matter, oxides of nitrogen and sulfur oxides from the vessel with the equivalent emission reduction strategy being employed. This documentation should include the vessel’s International Air Pollution Prevention (IAPP) certificate, and attachments where applicable.

- For Vessel Operators Using Nondistillate Fuels at or below 0.1% Sulfur<sup>6</sup>:

Identify the fuel type being used (e.g. marine fuel grade under ISO 8217), and ISO or ASTM specifications the fuel meets, as applicable. Provide any additional data the operator has on fuel properties that may impact emissions of diesel particulate matter, oxides of nitrogen and sulfur oxides.

ARB staff will use the information provided to further advance the state of knowledge of ocean-going vessel exhaust control technologies and fuel usage. Vessel operators are encouraged to contact ARB staff in advance with any questions.

To help streamline the submission of this information, ARB staff has prepared a notification form (see attachment A) that operators may elect to use. Once a vessel operator has provided the requested information, the vessel will be deemed to meet the requirements of the Research Exemption in the California OGV Fuel Regulation. The notification form and any applicable documentation only need to be provided once for each vessel, and can be provided to the ARB staff contact listed below.

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<sup>5</sup> Only vessels that employ equivalent alternative emission control technologies (actual equipment added to the vessel to reduce exhaust emissions) will be considered under this advisory. Vessels that may have approval to do emission averaging will not be considered as candidates for the Research Exemption.

<sup>6</sup> Note that during vessel inspections by ARB Enforcement staff, fuel samples will be collected and the sulfur content determined pursuant to International Standard ISO 8754. Bunker records with fuel analysis shall also be collected.

**Can I use the fuel switching records I keep for the ECA Regulation to comply with the California OGV Fuel Regulation?**

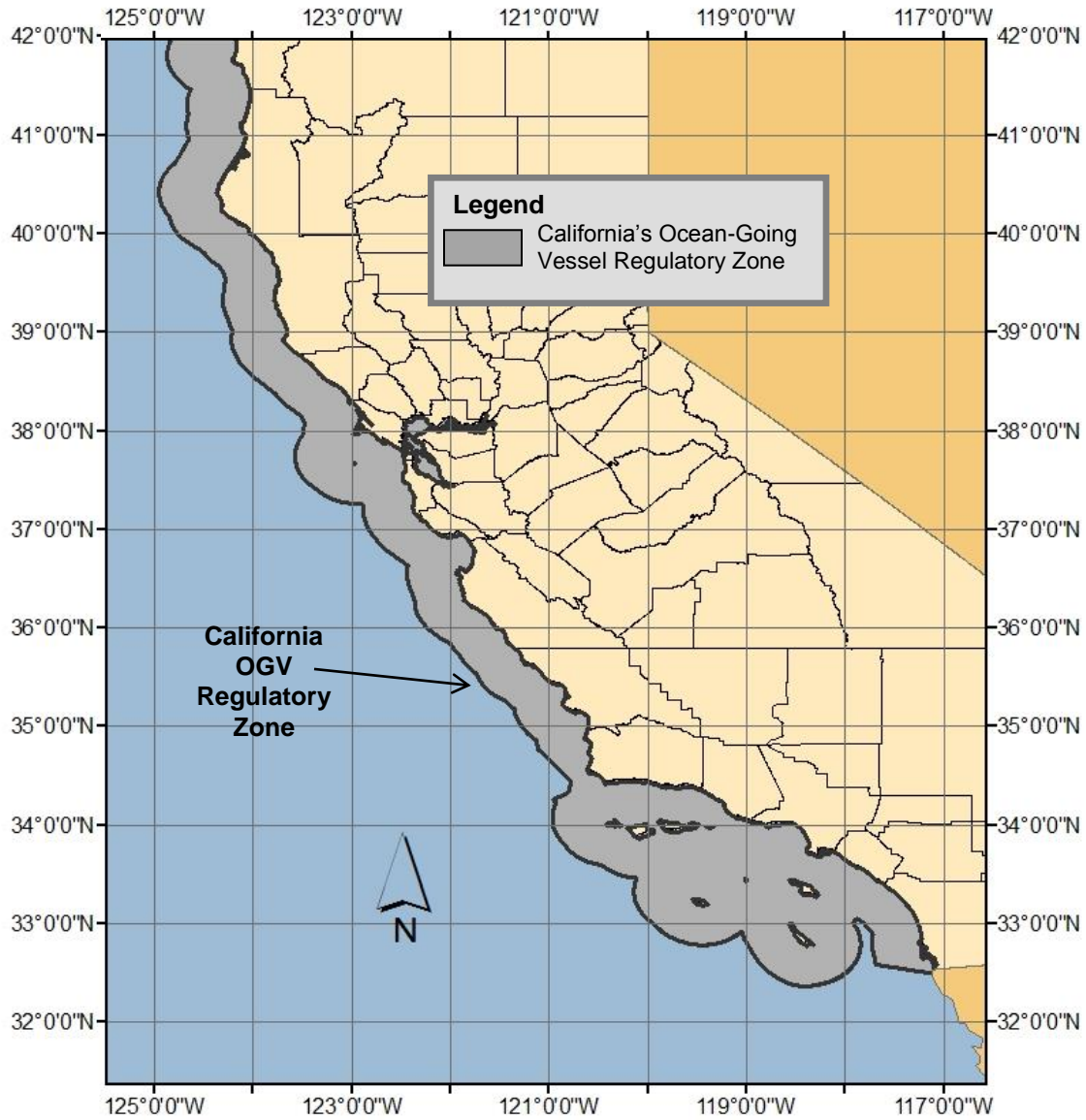
Yes, if the fuel switching records (logbooks) kept to demonstrate compliance with the ECA Regulation also satisfy the fuel switching recordkeeping requirements of the California OGV Fuel Regulation, then it will not be necessary to keep separate California OGV Fuels Regulation records. Staff anticipates that ECA Regulation records will satisfy the fuel switching recordkeeping requirements in the California OGV Fuel Regulation.

**How can I get more information?**

Information on California's OGV Fuel Regulation can be found at:  
<http://www.arb.ca.gov/ports/marinevess/ogv.htm>

**California's Ocean-Going Vessel Regulation Contact**

Name	Title	Phone	Email
Paul Milkey	Staff Air Pollution Specialist	(916) 327-2957	pmilkey@arb.ca.gov



**Figure 1. California's Ocean Going Vessel Regulatory Zone.**

**Attachment A**

**Notification of the Use of the  
Temporary Experimental or Research Exemption  
in the California OGV Fuel Regulation**

Note: This form is only for vessel operators that comply with the sulfur oxide emission control requirements in the North American Emission Control Area (ECA Regulation) using: (1) equivalent alternative controls under the provisions of IMO Revised MARPOL Annex VI, Regulation 4, or (2) fuel at or below 0.1% sulfur that does not meet all the specifications for marine distillate fuel grades. The purpose of this form is to notify the Air Resources Board that the vessel operator will be complying under the Temporary Experimental or Research Exemption in the California OGV Fuel Regulation. Please notify the Air Resources Board prior to entering Regulated California Waters. This notification is only required once, and does not need to be provided for each California port visit. This form may be submitted electronically (preferred) to the email contact listed below, or by facsimile (FAX) to:

Air Resources Board  
Attention: Research Exemption, Paul Milkey  
FAX: (916) 327-6251  
Email: [pmilkey@arb.ca.gov](mailto:pmilkey@arb.ca.gov)

**Compliance Options**

Please indicate Compliance Option (with a check ✓):

\_\_\_\_ Vessel has approved equivalent controls under the provisions of IMO Annex VI Regulation 4

Describe equivalent control technology (including fuel type and wt. % sulfur):

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\_\_\_\_ Vessel is using fuel at or below 0.1% sulfur that does not meet all the specifications for the distillate fuel grades specified in the California OGV Fuel Rule (e.g., marine gas oil or marine diesel oil). Identify which ISO or ASTM specifications the fuel meets, if any and percent sulfur by weight expressed to the nearest tenth weight percent.

Fuel Description:

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**Vessel and Contact Information**

Vessel Name: \_\_\_\_\_ Lloyds/IMO #: \_\_\_\_\_  
Flag State: \_\_\_\_\_  
Type of Vessel: \_\_\_\_\_  
Company Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Contact Person: \_\_\_\_\_ Title: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

**Documentation**

The documentation listed below is required to comply with the California OGV Fuel Regulation using the Research Exemption as described in Marine Notice 2014-1:

- For vessel operators using equivalent alternative emission control technology, the attachments to the vessel’s International Air Pollution Prevention certificate, where applicable; and
- For all vessel operators using the research exemption to comply with the regulation, any measurement data that the operator has on the emissions of diesel particulate matter, oxides of nitrogen and sulfur oxides from the vessel with the emission reduction strategy being employed (i.e., equivalent emission control technology or low sulfur nondistillate fuels)

Please list the specific documents that you are providing with this form on the lines below.

\_\_\_\_\_  
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\_\_\_\_\_

Certification: The information on this form and attached documentation is complete and accurate to the best of my knowledge and belief.	
Print Name:	Title:
Signature:	Date: