

**Table III-1. Ballast Water Treatment Performance Standards**

<b>Organism Size Class</b>	<b>IMO Regulation D-2<sup>[1]</sup></b>	<b>California<sup>[1,2]</sup></b>
<b>Organisms greater than 50 µm<sup>[3]</sup> in minimum dimension</b>	< 10 viable organisms per cubic meter	No detectable living organisms
<b>Organisms 10 – 50 µm in minimum dimension</b>	< 10 viable organisms per ml <sup>[4]</sup>	< 0.01 living organisms per ml
<b>Living organisms less than 10 µm in minimum dimension</b>		< 10 <sup>3</sup> bacteria/100 ml < 10 <sup>4</sup> viruses/100 ml
<b><i>Escherichia coli</i></b>	< 250 cfu <sup>[5]</sup> /100 ml	< 126 cfu/100 ml
<b>Intestinal enterococci</b>	< 100 cfu/100 ml	< 33 cfu/100 ml
<b>Toxicogenic <i>Vibrio cholerae</i> (O1 &amp; O139)</b>	< 1 cfu/100 ml or < 1 cfu/gram wet weight zooplankton samples	< 1 cfu/100 ml or < 1 cfu/gram wet weight zoological samples

<sup>[1]</sup> See Table III-2 below for dates by which vessels must meet California Interim Performance Standards and IMO Ballast Water Performance Standards.

<sup>[2]</sup> Final discharge standard for California, beginning January 1, 2020, is zero detectable living organisms for all organism size classes.

<sup>[3]</sup> Micrometer – one-millionth of a meter

<sup>[4]</sup> Milliliter – one-thousandth of a liter

<sup>[5]</sup> Colony-forming unit – a measure of viable bacterial numbers

**Table III-2. Implementation Schedule for Performance Standards**

<b>Ballast Water Capacity of Vessel</b>	<b>Standards apply to new vessels in this size class constructed on or after</b>	<b>Standards apply to all other vessels in this size class beginning in<sup>1</sup></b>
< 1500 metric tons	2009 (IMO) <sup>2</sup> /2010 (CA) <sup>3</sup>	2016
1500 – 5000 metric tons	2009 (IMO) <sup>2</sup> /2010 (CA) <sup>3</sup>	2014
> 5000 metric tons	2012	2016

<sup>1</sup> In California the standard applies to vessels in this size class as of January 1 of the year of compliance. The IMO Convention applies to vessels in this size class no later than the first intermediate or renewal survey, whichever occurs first, after the anniversary date of delivery of the ship in the year of compliance (IMO 2005).

<sup>2</sup> IMO has pushed back the initial implementation of the performance standards for vessels constructed in 2009 in this size class until the vessel's second annual survey, but no later than December 31, 2011 (IMO 2007).

<sup>3</sup> California Senate Bill 1781 (Chapter 696, Statutes of 2008) delayed the initial implementation of performance standards for vessels in this size class from January 1, 2009 to January 1, 2010.