

GUIDE FOR THE OPTIONAL CLASS NOTATION

DEEP WATER ANCHORING FOR OIL TANKERS AND BULK CARRIERS (DWA)

MAY 2011

Guide to Color Coding Used in Online Version of the Guide

The following summarizes the colors corresponding to Rule Changes, Corrigenda items and editorial changes in the Guide files which are available for download.

Rule Changes:

Corrigenda:

CORRIGENDA/EDITORIALS – 1 July 2015

Editorials:

Editorial Changes



GUIDE FOR THE OPTIONAL CLASS NOTATION

DEEP WATER ANCHORING FOR OIL TANKERS AND BULK CARRIERS (DWA)

MAY 2011 (Updated July 2015 – see next page)

**American Bureau of Shipping
Incorporated by Act of Legislature of
the State of New York 1862**

**Copyright © 2011
American Bureau of Shipping
ABS Plaza
16855 Northchase Drive
Houston, TX 77060 USA**

Updates

July 2015 consolidation includes:

- May 2011 version plus Corrigenda/Editorials

Foreword

In many instances the increase in the number and size of oil tankers and bulk carriers has out paced the ability of ports to provide sheltered anchorage locations for these vessels. As a consequence, there has been a growing need for owners, operators and the vessel's crew to anchor these vessels outside a harbor or similar areas of sheltered water. Noting the need to provide these same owners, operators and vessel crews, as well as designers and equipment providers, with a guide to assess the adequacy of anchoring equipment, ABS has, in response to requests from our clients, developed this Guide.

This Guide specifies the ABS requirements and criteria for obtaining the optional class notation Deep Water Anchoring (DWA). Included within this Guide are requirements detailing the anchor size, chain length and size, and windlass particulars considered necessary to withstand the environmental conditions that vessels anchoring outside a harbor or similar areas of sheltered water may be exposed to.

This Guide becomes effective on the first day of the month of publication.

We welcome your feedback. Comments or suggestions can be sent electronically by email to rsd@eagle.org.

GUIDE FOR THE OPTIONAL CLASS NOTATION

DEEP WATER ANCHORING FOR OIL TANKERS AND BULK CARRIERS (DWA)

CONTENTS

SECTION 1	Anchoring, Mooring and Equipment.....	1
1	General	1
1.1	Scope and Application	1
1.3	Basis of Notation.....	1
3	Deep Water Equipment Number.....	1
5	Anchors	3
5.1	Anchor Types	3
7	Anchor Chain	3
7.1	Chain Type	3
7.3	Chain Size	3
7.5	Chain Length	3
9	Tests	3
11	Environmental Loads	3
11.1	General.....	3
13	Windlass Support Structure and Cable Stopper	4
13.1	General.....	4
13.3	Support Structure.....	4
15	Vessel Support Structure	7
15.1	General.....	7
15.3	Scantlings	7
17	Chain Lockers	7
17.1	General.....	7
17.3	Chain Pipe opening	8
19	Hawse Pipes	8
TABLE 1	Equipment for Self-propelled Ocean-going Oil Tankers and Bulk Carriers	9
FIGURE 1	Effective Heights of Deck Houses.....	2
FIGURE 2	Direction of Forces and Weight.....	6
FIGURE 3	Sign Convention.....	6
FIGURE 4A		8
FIGURE 4B		8

SECTION 2	Anchor Windlass	10
1	General	10
1.1	Application	10
1.3	Standards of Compliance	10
1.5	Plans and Particulars	10
3	Materials and Fabrication.....	11
3.1	Materials.....	11
3.3	Welded Fabrication	11
5	Design.....	11
5.1	Mechanical Design	11
5.3	Hydraulic Systems.....	12
5.5	Electrical Systems	12
5.7	Protection of mechanical components.....	13
5.9	Coupling	13
7	Shop Inspection and Testing	13
9	Onboard Tests	13
 SECTION 3	 Surveys after Construction	 14
1	Anchoring System Annual Surveys	14
3	Anchoring System Special Periodical Surveys	14

This Page Intentionally Left Blank