



RULES FOR
CLASSIFICATION OF
SHIPS

NEWBUILDINGS

SPECIAL SERVICE AND TYPE
ADDITIONAL CLASS

PART 5 CHAPTER 13

CARRIAGE OF POTABLE WATER

JANUARY 2003

*This booklet includes the relevant amendments and corrections
shown in the July 2009 version of Pt.0 Ch.1 Sec.3.*

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CHANGES IN THE RULES

General

This booklet is a reprint of the previous edition and apart from clarifications of text and the inclusion of amendments and corrections, published in the July 2002 edition of Pt.0 Ch.1 Sec.3, no other changes have been made.

This chapter is valid until superseded by a revised chapter. Supplements will not be issued except for an updated list of minor amendments and corrections presented in Pt.0 Ch.1 Sec.3. Pt.0 Ch.1 is normally revised in January and July each year.

Revised chapters will be forwarded to all subscribers to the rules. Buyers of reprints are advised to check the updated list of rule chapters printed in Pt.0 Ch.1 Sec.1 to ensure that the chapter is current.

Corrections and Clarifications

In addition to the above stated rule requirements, a number of corrections and clarifications have been made in the existing rule text.

Comments to the rules may be sent by e-mail to rules@dnv.com

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SECTION 1 GENERAL REQUIREMENTS

A. General

A 100 Scope

101 The rules in this chapter give requirements with the objective of assuring transport in bulk of potable water with minimal risk of contaminating the cargo or otherwise reduce delivered quality.

A 200 Application

201 These rules apply to vessels dedicated to the transportation of potable water. The requirements are to be regarded as supplementary to those given for the assignment of main class.

A 300 Class notation

301 Vessels complying with the requirements of this section will be assigned the class notation:

Tanker for Potable Water

A 400 Assumption

401 It is assumed that cargo tanks are not used for any other purposes than transport of potable water, except under emergency conditions.

- General tank arrangements
- Cargo tank arrangements
- Cargo piping
- Cargo tank air vents
- Cargo tank ullaging system
- Specification of tank coating with certificate of acceptance for toxicity and tainting testing by recognised laboratory or health authority
- Specifications of metallic and non-metallic materials in contact with the cargo

102 For general requirements for documentation of instrumentation and automation, including computer based control and monitoring, see Pt.4 Ch.9 Sec.1.

103 The following control and monitoring system shall be approved by the Society:

- water quality instrument.

For requirements to documentation, see Pt.4 Ch.9.

B. Documentation

B 100 General

101 The following plans and particulars are to be submitted:

C. Surveys and Testing

C 100 General

101 All systems and installations covered by this section are to be surveyed and tested to the satisfaction of the surveyor.

SECTION 2

REQUIREMENTS FOR CARRIAGE OF POTABLE WATER

A. Materials

A 100 Cargo piping and cargo tank materials

101 Materials in contact with water, including coatings are not to give off harmful substances in contact with water nor cause tainting or discoloration.

102 For non-metallic materials and coatings documentation showing their suitability for use in contact with water intended for human consumption is to be submitted, e.g. test documentation according to BS 6920 or equivalent.

B. Tank Arrangement

B 100 Cargo tanks

101 Cargo tanks are to be separated from tanks containing fuel oil lubricating oil or any other liquid, except ballast water, by means of cofferdams.

B 200 Ballast tanks

201 The vessel is to have sufficient segregated ballast capacity in order to enable safe operation under all conditions in normal operation of the vessel, i.e. sufficient for propeller submergence and draught forward in accordance with Pt.3 Ch.1 Sec.6 H.

C. Piping System

C 100 Cargo piping and tank vent

101 Cargo piping is to be separated from all other piping systems, i.e. no physical connection is allowed.

102 Tank vents are to be designed so as to prevent ingress of sea water.

103 Hydraulically operated valves are not to be located inside cargo tanks unless the hydraulic fluid used is harmless to the water quality in case a leakage should occur.

104 Submerged cargo pumps are not accepted if leakage of hydraulic fluid or lubricants may contaminate the cargo.

D. Water Quality

D 100 Quality of water loaded

101 The quality of the water loaded shall comply with the Directive 98/83/EC of the European Union or with a quality standard specified by the receiving country or port.

102 The «as loaded» quality shall be documented by laboratory test results either taken from the particular cargo or from a documented quality control system implemented by the water supplier.

103 The vessel is to be equipped with instruments for measuring pH-value and conductivity.