

**PART II RULES FOR THE CONSTRUCTION
AND CLASSIFICATION OF VESSELS
IDENTIFIED BY THEIR MISSIONS**

TITLE 45 FLOATING CRANES

SECTION 1 NAVAL ARCHITECTURE

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CHAPTER A SCOPE

CHAPTER CONTENTS

A1. APPLICATION

A2. DEFINITIONS

A1. APPLICATION

100. Configuration

101. The present Title 45 applies to floating cranes/derricks installed on barges, self-propelled.

102. Requirements of this section do not apply when using jacked barges when the jacks are deployed to the river, lake, or sea bed and the barge is fully supported by the jacks.

103. Mobile or land cranes not permanently installed on barges whose lifting appliances have not classified by RBNA or another Class Society recognized by RBNA are not covered by the present Title 45.

200. Classification of cargo gear

201. Classification of loading gear is optional in principle, but mandatory for ships where the Class designation indicates the installation of loading gear, in particular with floating cranes assigned Class Notation **FLOATING CRANE**.

300. Class requirements for floating cranes

301. For floating cranes, the requirements of the RBNA Guide for Shipboard Lifting Appliances are to be complied with.

CHAPTER E CONFIGURATIONS

CHAPTER CONTENTS

E1. BASIC LAYOUT

E1. BASIC LAYOUT

100. Types of floating cranes

401. The lifting appliances of floating cranes are usually of the following types:

- a. Heavy lift
- b. Portal gantry cranes
- c. "A" frames
- d. Offshore cranes

CHAPTER H LOADING CONDITIONS, BUOYANCY AND STABILITY

CHAPTER CONDITIONS

H1. FREEBOARD
- See Part II, Title 11, Section 1

H2. LIGHT WEIGHT
- See Part II, Title 11, Section 1

H3. LOADING CONDITIONS

H4. BUOYANCY
- See Part II, Title 11, Section 1

H5. STABILITY

H3. LOADING CONDITIONS

100. Combination and loading configurations
-See Part II, Title 11, Section 1

200. Loadings of the lifting appliance

201. The following conditions for positioning the crane the maximum load will be investigated:

- a. jib rotated at 90° to the centreline of the vessel, and in this position:
 - a.1. minimum angle of the jib and maximum load height;
 - a.2. maximum angle of the jib and maximum load height.
- b. jib at 0° with the centreline of the vessel (in the case of a rotating crane, forward and aft positions) and in this position:
 - b.1. minimum angle of the jib and maximum load height;
 - b.2. maximum angle of the jib and maximum load height.

202. The applied loads will be combined with the conditions of weights of tanks and of other loadings.

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203. For the test loads, see RBNA Guide to Shipboard Lifting Appliances

H5. STABILITY

100. Weight distribution

- See Part II, Title 11, Section 1

200. Free surface

- See Part II, Title 11, Section 1

300. Stability assessment

301. and 302. - See Part II, Title 11, Section 1

303. In addition to the criteria required by National Authorities (in Brazil, DPC's NORMAM 01) and International Authorities, at the end positions of balance having a list as defined in Sub Chapter H3, there shall be no point of the deck with freeboard less than 100 mm.

CHAPTER T INSPECTIONS AND TESTS

CHAPTER CONTENTS

T1. DURING THE CONSTRUCTION

- See Part II, Title 11, Section 1

T2. AT THE END OF THE CONSTRUCTION

T3. TRIALS NAVIGATING

- See Part II, Title 11, Section 1

T2. AT THE END OF THE CONSTRUCTION

100. Inclining test

- See Part II, Title 11, Section 1

200. Measurement of drafts and weights ("draft survey")

- See Part II, Title 11, Section 1

300. Tolerances

- See Part II, Title 11, Section 1

400. Lifting appliance testing

401. A test program should be prepared for the lifting operations, to be approved by RBNA. The tests are to be carried out at the presence of the Surveyor.