

Main changes in NR206

Main changes in Bureau Veritas Rules for Wind Propulsion Systems, January 2024 edition, regarding the previous edition (February 2021) are described as follows.

Rules history

January 2024 edition into force on January 1, 2024 Contents	Previous edition: February 2021 into force on February 1, 2021 Contents
Wind Propulsion Systems [NR 206 DT R02 January 2024]	Wind Propulsion Systems NR 206 DT R01 E February 2021]

Overview

General update consisting of:

- Update of classification notations, definitions, and associated requirements (sections 1, and 2)
- Update and re-writing of requirements for loads and structural parts (sections 4, 5 and 6)
- Update of requirements on base ship (section 8)

The organisation of the document has been impacted by these general updates and is reflected in the following correspondences table:

Wind Propulsion Systems [NR 206 DT R02 January 2024]	Wind Propulsion Systems [NR 206 DT R01 E February 2021]
Section 1 General	Section 1 General
Section 2 Classification requirements	Section 2 Classification requirements
-	Section 3 Certification requirements
Section 3 Material, Equipment and Accessories	Section 4 Material and equipment
Section 4 Environmental Conditions and Design loads	Section 5 Design condition and loads
Section 5 Safety Rigging Parts	Section 6 Standing rigging structure
Section 6 Operating Rigging Parts	Section 7 Standing rigging structure
Section 7 Drive Systems	Section 8 Drive systems
Section 8 Base ship requirements	Section 9 Base ship requirements
Section 9 Sea trials, initial Inspection and testing	Section 10 Sea trials, initial Inspection and testing
See NR467, Part A, Chapter 4, Section 12	Section 11 In service survey
See MEPC.1/Circ.896	Appendix 1 Guidelines for calculation of Energy Efficiency Design Index (EEDI)
Appendix 1 Requirements for survey of Materials and Equipment	Appendix 2 Requirements for survey of Materials and Equipments

Table 1 : Correspondence table

Section 1 – General

Topic	Description	Reference
Classification notations	<ul style="list-style-type: none"> Change of notations from WPS1 and WPS2 to WIND PROPULSION-1 and WIND PROPULSION-2 Notations for ships other than yachts changed from additional class notation to additional service feature 	Sec 1, [1]
Wind propulsion types	Improvement of description of wind propulsion system types	Sec 1, [2]
Safety and operating rigging	Re-writing of the description of the elements constituting the wind propulsion systems	Sec 1, [2.2]

Section 2 – Classification Requirements

Topic	Description	Reference
Additional service features	Classification requirements are now described in NR467, Pt A.	Sec 2
Documents to be submitted	Update of the list of documents to be submitted	Sec 2, Table 1

Section 3 – Materials, Equipment and Accessories

Topic	Description	Reference
Wind propulsion system accessories	Re-writing of the requirements for interface elements	Sec 3, [4.6] & [4.7]

Section 4 – Environmental Conditions and Design Loads

Topic	Description	Reference
Environmental definitions	Re-arrangement of definitions for more clarity Update of wave loads definitions	Sec 4, [2]
Design conditions	Complete re-writing of the design loads Update of design conditions and extreme winds	Sec 4, [3], [4] and [5]

Section 5 – Safety Rigging Parts Structure

Topic	Description	Reference
Structure calculation	Clarification of the structural calculation approach and the structural model	Sec 5, [2]
Criteria	New criteria for fine mesh models	Sec 5, [4.4.1] and [6.2.1]

Section 6 – Operating Rigging Parts Structure

Topic	Description	Reference
Criteria	New criteria for fine mesh models	Sec 6, [3.2.2]

Section 8 – Base ship requirements

<i>Topic</i>	<i>Description</i>	<i>Reference</i>
<i>Stability</i>	<i>New criteria for intact stability requirements</i>	<i>Sec 5, [4.4.1] and [6.2.1]</i>
<i>Equipment in chain and anchors</i>	<i>Update of the definition of the force applied on the rigging (F_m) and the associated coefficient</i>	<i>Sec 8, [5.3.2] and [5.3.3]</i>