

# **RULES**

## **FOR THE CLASSIFICATION AND CONSTRUCTION OF FIXED OFFSHORE PLATFORMS**

### **PART IX BOILERS, HEAT EXCHANGERS AND PRESSURE VESSELS**

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# **RULES FOR THE CLASSIFICATION AND CONSTRUCTION OF FIXED OFFSHORE PLATFORMS**

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Rules for the Classification and Construction of Fixed Offshore Platforms (the FOP Rules) of Russian Maritime Register of Shipping (RS, the Register) have been approved in accordance with the established approval procedure and come into force on 1 September 2023.

The present Rules are based on the latest version of the Rules for the Classification, Construction and Equipment of Mobile Offshore Drilling Units and Fixed Offshore Platforms, 2022, taking into account the amendments and additions developed immediately before publication.

The Rules set down specific requirements for FOP and supplement the Rules for the Classification and Construction of Sea-Going Ships and the Rules for the Equipment of Sea-Going Ships.

The Rules are published in the following parts:

Part I "Classification";

Part II "Hull";

Part III "Equipment, Arrangements and Outfit";

Part IV "Stability";

Part V "Subdivision";

Part VI "Fire Protection";

Part VII "Machinery Installations and Machinery";

Part VIII "Systems and Piping";

Part IX "Boilers, Heat Exchangers and Pressure Vessels";

Part X "Electrical Equipment";

Part XI "Refrigerating Plants";

Part XII "Materials";

Part XIII "Welding";

Part XIV "Automation";

Part XV "Safety Assessment";

Part XVI "Signal Means";

Part XVII "Life-Saving Appliances";

Part XVIII "Radio Equipment";

Part XIX "Navigational Equipment";

Part XX "Equipment for Prevention of Pollution".

**REVISION HISTORY**

(purely editorial amendments are not included in the Revision History)

For this version, there are no amendments to be included in the Revision History.

## **1 APPLICATION**

**1.1** The requirements of this Part of the Rules for the Classification and Construction of Fixed Offshore Platforms<sup>1</sup> apply to boilers, heat exchangers and pressure vessels used to ensure operation of the systems and machinery serving the FOP power plant and accommodation sector.

**1.2** Boilers, heat exchangers and pressure vessels intended for other purpose may comply with the requirements of the FOP Rules in so much as practicable and reasonable.

**1.3** For heat exchangers and pressure vessels used in oil-and-gas equipment of the MODU process system, the requirements of the Rules for the Oil-and-Gas Equipment of Floating Offshore Oil and Gas Product Units, Mobile Offshore Drilling Units and Fixed Offshore Platforms<sup>2</sup> shall be applied.

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<sup>1</sup> Hereinafter referred to as "the FOP Rules".

<sup>2</sup> Hereinafter referred to as "the OGE Rules".

## **2 GENERAL**

**2.1** The scope of technical supervision, materials used, strength of structural elements, welding and heat treatment, as well as the amount of testing of boilers, heat exchangers and pressure vessels mentioned in [1.1](#) shall comply with the requirements of Sections 1 and 2, Part X "Boilers, Heat Exchangers and Pressure Vessels" of the Rules for the Classification and Construction of Sea-Going Ships<sup>1</sup>.

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<sup>1</sup> Hereinafter referred to as "the Rules for the Classification".

### **3 BOILERS**

**3.1** Steam boilers, as well as thermal oil boilers used on FOP, their burning installations, control, regulation, protection and alarm systems, fittings and gauges shall comply with the requirements of Sections 3 — 5, Part X "Boilers, Heat Exchangers and Pressure Vessels" of the Rules for the Classification.

## **4 HEAT EXCHANGERS AND PRESSURE VESSELS**

**4.1** Heat exchangers and pressure vessels shall comply with the requirements of Section 6, Part X "Boilers, Heat Exchangers and Pressure Vessels" of the Rules for the Classification.

**4.1.1 Hydraulic accumulators.**

**4.1.1.1** The gas and liquid phases of the hydraulic accumulators shall be suitably separated in case where their direct contact can result in loss of the gas or spoilage of the liquid phase.

**4.1.1.2** Each hydraulic accumulator shall be provided with a safety device fitted on the gas side. Such device may be fitted on the non-disconnectable portion of the pipeline.

**4.1.1.3** Gas cylinders intended for filling of the hydraulic accumulators shall be manufactured to the standards approved by the Register.

**4.1.1.4** The heat exchangers and pressure vessels used in oil-and-gas equipment of the MODU process system shall comply with the requirements of Section 3, Part VII "Heat Exchangers and Pressure Vessels" of the OGE Rules.

Russian Maritime Register of Shipping

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