



RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER

No. 312-09-1837c

dated 11.10.2022

Re:

amendments to the Rules for the Classification and Construction of Sea-Going Ships, 2022, ND No. 2-020101-152-E, Rules for the Classification and Construction of Floating Offshore Oil-and-Gas Production Units, 2022, ND No. 2-020201-020-E

Item(s) of supervision:

ships and offshore installations

Entry-into-force date:

01.11.2022

~~Cancels / amends / adds Circular Letter No.~~

~~dated~~

Number of pages: 1 + 10

Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to Part I "Classification" of the Rules for the Classification and Construction of Sea-Going Ships and Part I "Classification" of the Rules for the Classification and Construction of Floating Offshore Oil-and-Gas Production Units

Director General

Konstantin G. Palnikov

Text of CL:

We hereby inform that the Rules for the Classification and Construction of Sea-Going Ships and Rules for the Classification and Construction of Floating Offshore Oil-and-Gas Production Units shall be amended as specified in the Appendices to the Circular Letter.

It is necessary to do the following:

1. Bring the content of the Circular Letter to the notice of the RS surveyors, interested organizations and persons in the area of the RS Branch Offices' activity.
2. Apply the provisions of the Circular Letter during review and approval of the technical documentation on ships and offshore installations contracted for construction of conversion on or after 01.11.2022, in the absence of a contract, during review and approval of the technical documentation on ships and offshore installations requested for review on or after 01.11.2022.

List of the amended and/or introduced paras/chapters/sections:

Rules for the Classification and Construction of Floating Offshore Oil-and-Gas Production Units:

Part I: paras 2.2.1 — 2.2.6;

Rules for the Classification and Construction of Sea-Going Ships:

Part I: para 1.2.2.11 and Table 2.5

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**Information on amendments introduced by the Circular Letter
(for inclusion in the Revision History to the RS Publication)**

Nos.	Amended paras/chapters/ sections	Information on amendments	Number and date of the Circular Letter	Entry-into-force date
1	Rules for the Classification and Construction of Floating Offshore Oil-and-Gas Production Units	The title of the Rules has been replaced by the "Rules for the Classification and Construction of Floating Offshore Oil-and-Gas Product Units"	312-09-1837c of 11.10.2022	01.11.2022
2	Rules for the Classification and Construction of Floating Offshore Oil-and-Gas Production Units, Annotation	Annotation has been amended	312-09-1837c of 11.10.2022	01.11.2022
3	Rules for the Classification and Construction of Floating Offshore Oil-and-Gas Production Units, Part I, paras 1.1.1 — 1.1.3	Term "production unit" has been replaced by the term "product unit"	312-09-1837c of 11.10.2022	01.11.2022
4	Rules for the Classification and Construction of Floating Offshore Oil-and-Gas Production Units, Part I, para 1.2.1	Definition "Floating offshore oil-and-gas production unit (FPU)" has been replaced by the definition "Floating offshore oil-and-gas product unit (FPU)". Definitions "Floating storage and offloading unit (FSO)", "Floating production, storage and offloading unit (FPSO)", "Floating production and offloading unit (FPO)", "Floating single point mooring (FSPM)" and "Stationary single point mooring (SSPM)" have been specified. New definitions "Floating storage regasification unit (FSRU)", "Floating storage and offloading unit for liquefied gas (FSO(LG))" and "Floating production, storage and offloading unit for liquefied gas (FPSO (LG))" have been introduced	312-09-1837c of 11.10.2022	01.11.2022
5	Rules for the Classification and Construction of Floating Offshore Oil-and-Gas Production Units, Part I, paras 2.2.1 — 2.2.2	Requirements for assignment of descriptive notations FPO , FPSO , FSO , FSPM and SSPM have been specified	312-09-1837c of 11.10.2022	01.11.2022

Nos.	Amended paras/chapters/ sections	Information on amendments	Number and date of the Circular Letter	Entry-into-force date
6	Rules for the Classification and Construction of Floating Offshore Oil-and-Gas Production Units, Part I, paras 2.2.3 — 2.2.6	New paras 2.2.3 — 2.2.5 have been introduced containing requirements for assignment of descriptive notations FSRU , FPSO(LG) and FSO(LG) . Existing para 2.2.3 has been renumbered 2.2.6	312-09-1837c of 11.10.2022	01.11.2022
7	Rules for the Classification and Construction of Floating Offshore Oil-and-Gas Production Units, Part I, para 2.2.3 (renumbered 2.2.6)	References to the applicable requirements have been specified for descriptive notation Gas carrier	312-09-1837c of 11.10.2022	01.11.2022
8	Rules for the Classification and Construction of Sea-Going Ships, Part I	Term "production unit" has been replaced by the term "product unit" throughout the text of Part I	312-09-1837c of 11.10.2022	01.11.2022
9	Rules for the Classification and Construction of Sea-Going Ships, Part I, para 1.2.2.11	References to the RS rules have been specified; abbreviations "FPU Rules" and "FPU Equipment Rules" have been introduced	312-09-1837c of 11.10.2022	01.11.2022
10	Rules for the Classification and Construction of Sea-Going Ships, Part I, Table 2.5	In item 1.18, new descriptive notations FSRU , FPSO(LG) and FSO(LG) have been introduced. In item 1.18, requirements for descriptive notation Gas carrier have been specified. In item 1.19, requirements for descriptive notations FSO , FPO , FPSO , FSPM and SSPM have been specified. In item 1.19, descriptive notation gas carrier has been deleted. In item 1.20, requirements for distinguishing mark (ESP) have been specified	312-09-1837c of 11.10.2022	01.11.2022

RULES FOR THE CLASSIFICATION AND CONSTRUCTION OF FLOATING OFFSHORE OIL-AND-GAS PRODUCTION UNITS, 2022

ND No. 2-020201-020-E

1 The title of the Rules is replaced by the following text:

**"RULES FOR THE CLASSIFICATION AND CONSTRUCTION OF FLOATING
OFFSHORE OIL-AND-GAS PRODUCT UNITS".**

ANNOTATION

2 **Annotation** is replaced by the following text.

"Rules for the Classification and Construction of Floating Offshore Oil-and-Gas Product Units (FPU) 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 January 2022.

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 and Explosion Protection";

Part VII "Machinery Installations";

Part VIII "Systems and Piping";

Part IX "Machinery";

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

Part XI "Electrical Equipment";

Part XII "Refrigerating Plants";

Part XIII "Materials";

Part XIV "Welding";

Part XV "Automation";

Part XVI "General Requirements and Safety Principles".

The Rules supplement the Rules for the Classification and Construction of Sea Going Ships and the Rules for the Classification, Construction and Equipment of Mobile Offshore Drilling Units and Fixed Offshore Platforms."

PART I. CLASSIFICATION

1 GENERAL

3 **Paras 1.1.1 — 1.1.3.** Term "production unit" is replaced by the term "product unit".

4 **Para 1.2.1.** Definition "Floating offshore oil-and-gas production unit (FPU)" is replaced by the following text:

"Floating offshore oil-and-gas product unit (FPU) is a floating offshore ship-, pontoon- or otherwise-shaped installation provided with a position-keeping system and intended for performing one or several functions: production, intake, storage, processing and offloading of products."

After the definition "Floating offshore oil-and-gas product unit (FPU)", the definition "Floating storage regasification unit (FSRU)" is introduced reading as follows:

"Floating storage regasification unit (FSRU) is a floating offshore installation intended for long-term (or constant) operation at a fixed location in a regasification and gas discharge mode and/or a gas receiving, processing, liquefaction and storage mode."

The definition "Floating storage and offloading unit (FSO)" is replaced by the following text:

"Floating storage and offloading unit (FSO) is a floating offshore self-propelled or non-self-propelled installation intended for intake, storage and offloading of products."

After the definition "Floating storage and offloading unit (FSO)", the definition "Floating storage and offloading unit for liquefied gas (FSO(LG))" is introduced reading as follows:

"Floating storage and offloading unit for liquefied gas (FSO(LG)) is a floating offshore self-propelled or non-self-propelled installation intended for intake, storage and offloading of liquefied gas."

The definition "Floating production, storage and offloading unit (FPSO)" is replaced by the following text:

"Floating production, storage and offloading unit (FPSO) is a floating offshore self-propelled or non-self-propelled installation intended for production, intake, processing, storage and offloading of products."

After the definition "Floating production, storage and offloading unit (FPSO)", the definition "Floating production, storage and offloading unit for liquefied gas (FPSO (LG))" is introduced reading as follows:

"Floating production, storage and offloading unit for liquefied gas (FPSO (LG)) is a floating offshore installation intended for production, intake, processing, storage and offloading of liquefied gas."

The definition "Floating production and offloading unit (FPO)" is replaced by the following text:

"Floating production and offloading unit (FPO) is a floating offshore installation intended for production, intake, processing and offloading of products."

The definition "Floating single point mooring (FSPM)" is replaced by the following text:

"Floating single point mooring (FSPM) is a floating offshore installation intended for mooring of oil tankers or FPU and for offloading of products at sea or at anchorage."

The definition "Stationary single point mooring (SSPM)" is replaced by the following text:

"Stationary single point mooring (SSPM) is a stationary offshore installation intended for mooring of oil tankers or FPU and for offloading of products at sea or at anchorage."

2 CLASS OF FPU

5 **Paras 2.2.1 and 2.2.2** are replaced by the following text:

2.2.1 Floating installations are assigned a class notation in accordance with Section 2 of Part I "Classification" of the Rules for the Classification.

2.2.2 In addition to 2.2.1, one of the following descriptive notations, namely: **FPO**, **FPSO** or **FSO**, depending on the flow chart chosen and subject to compliance with the applicable requirements of the FPU Rules, is added to the character of classification of FPU intended for operations with oil.

Self-propelled oil tankers or combination carriers operated as **FSO** or **FPSO** and having appropriate descriptive notations in the class notation, are assigned the distinguishing mark (**ESP**). This means the necessity to survey these ships based on the Enhanced Survey Programme."

6 **New paras 2.2.3 — 2.2.5** are introduced reading as follows:

2.2.3 In addition to 2.2.1 of this Part, one of the following descriptive notations, namely: **FPSO(LG)** or **FSO(LG)**, depending on the flow chart chosen and subject to compliance with the applicable requirements of the Rules for the Classification and Construction of Ships Carrying Liquefied Gases in Bulk (hereinafter referred to as "the LG Rules"), is added to the character of classification of FPU intended for operations with liquefied gas. The distinguishing marks specified above may be assigned if FPU is periodically operated as an LG carrier and fully meets the applicable requirements of the LG Rules.

Minimum conditions for assignment of descriptive notations **FPSO(LG)** and **FSO(LG)** are the following:

.1 arrangement of spaces, compartments, cargo tanks and types of structural protection comply with the requirements of Part II "Ship Arrangement" of the LG Rules;

.2 stability verification, subdivision and freeboard assignment are performed in compliance with the requirements of 1.2, 1.3, 2.1, Sections 3 and 4 of Part III "Stability. Subdivision. Freeboard" of the LG Rules;

.3 cargo containment systems and types of cargo tanks comply with the requirements of Part IV "Cargo Containment" of the LG Rules or the Rules for Membrane Containment System for Liquefied Natural Gas (whichever is applicable depending on the type of cargo tanks);

.4 structural fire protection, fire extinguishing systems, fire-fighting equipment and outfit comply with the requirements of Part VI "Fire Protection" of the Rules for the Classification, Part V "Fire Protection" of the LG Rules (with regard to protection of tanks, cargo area by fire extinguishing systems) as well as Sections 2, 3 and 4 of Part VI "Fire and Explosion Protection" of the FPU Rules (with regard to protection of the wellhead and process area of FPU);

.5 systems and piping comply with the requirements of Part VI "Systems and Piping" of the LG Rules (requirements of Section 11 shall be considered if methane is used as a fuel);

.6 electrical equipment complies with the requirements of Part VII "Electrical Equipment" of the LG Rules (requirements of Section 4 shall be considered if methane is used as a fuel);

.7 automation equipment complies with the requirements of Part XV "Automation" of the FPU Rules;

.8 means for indicating level, pressure and temperature of the cargo and their automation means comply with the requirements of Part VIII "Instrumentation and Automation Systems" of the LG Rules;

.9 plates, sections, pipes, forgings and castings used in the construction of cargo tanks, cargo process pressure vessels, cargo and process piping, secondary barriers, as well as welded joints of the above products, plates and sections used for manufacture of structures subjected to low temperatures, but of other than parts of the secondary barrier comply with the requirements of Part IX "Materials and Welding" of the LG Rules;

.10 depending on the type of cargo (refer to Annex 1 to the LG Rules) additional requirements of Part X "Special Requirements" of the LG Rules are considered;

.11 life-saving appliances and signal means, radio and navigational equipment of non-self-propelled FPU meet the requirements of the Rules for the Equipment of FPU, for self-propelled FPU not engaged in international voyages — requirements of the Rules for

the Equipment of Sea-Going Ships, for self-propelled FPU engaged in international voyages — applicable provisions of SOLAS 74 as amended and COLREG-72;

.12 with regard to the prevention of environment pollution, FPU shall comply with the applicable requirements of MARPOL 73/78 as amended, the Rules for the Prevention of Pollution from Ships Intended for Operation in Sea Areas and Inland Waterways of the Russian Federation as well as requirements of other conventions and instructions of the Flag State Maritime Administration of FPU relating to the prevention of pollution in specific sea areas, port waters, if any.

2.2.4 In addition to 2.2.1, the descriptive notation **FSRU** is added to the character of classification of FPU intended for long-term (or constant) operation at a fixed location in a regasification and gas discharge mode and/or a gas receiving, processing, liquefaction and storage mode.

Minimum conditions for assignment of descriptive notation **FSRU** are the following:

.1 arrangement of spaces, compartments, cargo tanks and types of structural protection comply with the requirements of Part II "Ship Arrangement" of the LG Rules;

.2 cargo containment systems and types of cargo tanks comply with the requirements of Part IV "Cargo Containment" of the LG Rules or the Rules for Membrane Containment System for Liquefied Natural Gas (whichever is applicable depending on the type of cargo tanks);

.3 structural fire protection complies, fire-fighting equipment and systems, fire detection and alarm systems as well as fire-fighting outfit, spare parts and tools comply with the requirements of 2.1 and 2.4, Sections 3, 4 and 5 of Part VI "Fire Protection" of the Rules for the Classification. Structural fire protection, fire extinguishing systems, fire-fighting equipment and outfit comply with the requirements of Part V "Fire Protection" of the LG Rules;

.4 regasification plants comply with the requirements of 3.24 of Part VI "Systems and Piping" of the LG Rules, remote closing arrangements of inlets and outlets into accommodation, service spaces and control stations consider the requirements of 8.3.4 of Part VI "Systems and Piping" of the LG Rules, and when using cargo as a fuel, special requirements of Section 11 of Part VI "Systems and Piping" of the LG Rules are considered;

.5 electrical installations and individual types of electrical equipment comply with the requirements of Part VII "Electrical Equipment" of the LG Rules;

.6 level indicators for cargo tanks, liquid level alarms, pressure gauges, temperature indicating devices, gas detectors as well as automation systems comply with the requirements of Part VIII "Instrumentation and Automation Systems" of the LG Rules;

.7 automation equipment complies with the requirements of Part XV "Automation" of the Rules for the Classification.

2.2.5 In addition to 2.2.1, the descriptive notation **FSPM** or **SSPM**, depending on the intended purpose and compliance with the requirements of the FPU Rules, is added to the character of classification of the single point mooring. When classifying the single point mooring together with the pipeline end manifold (PLEM), the applicable requirements of Part VIII "Field Subsea Pipelines and Risers" of the Rules for the Classification and Construction of Subsea Production Systems shall also be met."

7 **Existing para 2.2.3** is renumbered **2.2.6**.

8 **Existing para 2.2.3** is replaced by the following text:

"2.2.6 If a self-propelled floating unit is intended for gas transportation as well as periodical operation at a fixed location in a regasification and gas discharge mode and/or a gas receiving, processing, liquefaction and storage mode, when one of the descriptive notations specified in 2.2.3 and 2.2.4 is added to the character of classification of the floating unit, the descriptive notation **Gas carrier** shall also be added with a distinguishing mark defining its type. Such floating unit shall meet the requirements of the LG Rules and the Rules for Membrane Containment System for Liquefied Natural Gas (whichever is applicable, depending on the type of cargo tanks)."

RULES FOR THE CLASSIFICATION AND CONSTRUCTION OF SEA-GOING SHIPS, 2022

ND No. 2-020101-152-E

PART I. CLASSIFICATION

2 CLASS OF A SHIP

9 Throughout the text of **Part I**, the term "production unit" is replaced by "product unit"

10 **Para 1.2.2.11** replaced by the following text:

"**11** floating offshore oil-and-gas product units (refer to the Rules for the Classification and Construction of Floating Offshore Oil-and-Gas Product Units (hereinafter referred to as the "Rules for the Classification and Construction of FPU", "FPU Rules ") and the Rules for the Equipment of Floating Offshore Oil-and-Gas Product Units (hereinafter referred to as the "Rules for the Equipment of FPU", "FPU Equipment Rules"))".

11 **Table 2.5**. In **item 1.18** after the descriptive notation **Floating dock** the descriptive notations **FSRU**, **FPSO(LG)** and **FSO(LG)** are introduced reading as follows:

Distinguishing mark or descriptive notation	References to RS requirements
<p>FSRU (floating storage and regasification unit) The descriptive notation is assigned to floating installations intended for long-term (or constant) operation at a fixed location in a regasification and gas discharge mode and/or a gas receiving, processing, liquefaction and storage mode. One of the following descriptive notations Gas carrier type 1G, Gas carrier type 2G, Gas carrier type 2PG or Gas carrier type 3G is assigned if FSRU is periodically operated as an LG carrier provided the requirements of the Rules for the Classification and Construction of Sea-Going Ships applicable to gas carriers and the Rules for the Classification and Construction of Ships Carrying Liquefied Gases in Bulk are fully met</p>	<p>FPU Rules Part I "Classification", 1.2.1, 2.2.4, 2.2.6 Rules for the Classification and Construction of Ships Carrying Liquefied Gases in Bulk Part I "Classification", 2.1, Section 4 Part II "Ship Arrangement" Part IV "Cargo Containment" (if applicable, depending on the type of cargo tanks) Part V "Fire Protection" Part VI "Systems and Piping", 3.24, 8.3.4, Section 11 Part VII "Electrical Equipment" (Section 4 — only if methane is used as a fuel) Part VIII "Instrumentation and Automation Systems" Part IX "Materials and Welding" Part X "Special Requirements" (applied depending on the type of cargo) Rules for Membrane Containment System for Liquefied Natural Gas (if applicable, depending on the type of cargo tanks) Rules for the Classification and Construction of Sea-Going Ships Part II "Hull", 3.5 Part III "Equipment, Arrangements and Outfit", 2.9.4, 5.7, 7.11 Part IV "Stability", 3.4, 4.1.3.8 Part V "Subdivision", 1.1.1.6, 3.4.6 Part VI "Fire Protection", 2.1, 2.4, Sections 3, 4, 5 (specific requirements to ship type in 1.4.3, 2.4, in item 17 of Table 3.1.2.1, in 3.10.2.4, 3.10.3.2, 5.1.3) Part VII "Machinery Installations", 1.1.2, 2.3.1, 3.2.10, 3.2.12, 4.5.10 — 4.5.13, 7.4.7.2, 7.4.8.2 Part VIII "Systems and Piping", 7.2.5, 7.10, 8.7.4, 11.1.3, 12.2, 13.7.8, 13.12 Part IX "Machinery", 6.2.1.2, 6.2.1.8, 6.2.1.11 Part XV "Automation" FPU Equipment Rules (entirely)</p>

Distinguishing mark or descriptive notation	References to RS requirements
<p>FPSO(LG) (floating production, storage and offloading unit for liquefied gas) The descriptive notation is assigned to floating installations intended for liquefied gas production, intake, processing, storage and offloading. One of the following descriptive notations Gas carrier type 1G, Gas carrier type 2G, Gas carrier type 2PG, Gas carrier type 3G is assigned, if FPSO(LG) is periodically operated as an LG carrier provided the requirements of the Rules for the Classification and Construction of Sea-Going Ships applicable to gas carriers and the Rules for the Classification and Construction of Ships Carrying Liquefied Gases in Bulk are fully met</p>	<p>FPU Rules Part I "Classification", 1.2.1, 2.2.3, 2.2.6 Rules for the Classification and Construction of Ships Carrying Liquefied Gases in Bulk Part I "Classification", 2.1, Section 4 Part II "Ship Arrangement" Part III "Stability. Subdivision. Freeboard", 1.2, 1.3, 2.1, Sections 3, 4 Part IV "Cargo Containment" (if applicable, depending on the type of cargo tanks) Part V "Fire Protection", Sections 2, 3, 4 Part VI "Systems and Piping" (Section 11 — only if methane is used as a fuel) Part VII "Electrical Equipment" (Section 4 — only if methane is used as a fuel) Part VIII "Instrumentation and Automation Systems" Part IX "Materials and Welding" Part X "Special Requirements" (applied depending on the type of cargo) Part XV "Automation" Rules for Membrane Containment System for Liquefied Natural Gas (if applicable, depending on the type of cargo tanks) Rules for the Classification and Construction of Sea-Going Ships Part VI "Fire Protection", 2.4, Sections 3, 4, 5 Part XVII "Distinguishing Marks and Descriptive Notation in the Class Notation Specifying Structural and Operational Particulars of Ships", Section 9 (if applicable) FPU Equipment Rules (entirely)</p>
<p>FSO(LG) (floating storage and offloading unit for liquefied gas) The descriptive notation is assigned to floating installations intended for liquefied gas intake, storage and offloading. One of the following descriptive notations Gas carrier type 1G, Gas carrier type 2G, Gas carrier type 2PG or Gas carrier type 3G is assigned if FSO(LG) is periodically operated as an LG carrier provided the requirements of the Rules for the Classification and Construction of Sea-Going Ships applicable to gas carriers and the Rules for the Classification and Construction of Ships Carrying Liquefied Gases in Bulk are fully met</p>	<p>FPU Rules Part I "Classification", 1.2.1, 2.2.3, 2.2.6 Part XV "Automation" Rules for the Classification and Construction of Ships Carrying Liquefied Gases in Bulk Part I "Classification", 2.1, Section 4 Part II "Ship Arrangement" Part III "Stability. Subdivision. Freeboard", 1.2, 1.3, 2.1, Sections 3, 4 Part IV "Cargo Containment" (if applicable, depending on the type of cargo tanks) Part V "Fire Protection", Sections 2, 3, 4 Part VI "Systems and Piping" (Section 11 — only if methane is used as a fuel) Part VII "Electrical Equipment" (Section 4 — only if methane is used as a fuel) Part VIII "Instrumentation and Automation Systems" Part IX "Materials and Welding" Part X "Special Requirements" (applied depending on the type of cargo) Rules for Membrane Containment System for Liquefied Natural Gas (if applicable, depending on the type of cargo tanks) Rules for the Classification and Construction of Sea-Going Ships Part VI "Fire Protection", 2.4, Sections 3, 4, 5 Part XVII "Distinguishing Marks and Descriptive Notation in the Class Notation Specifying Structural and Operational Particulars of Ships", Section 9 (if applicable) FPU Equipment Rules (entirely)</p>

12 **Table 2.5.** In **item 1.18** brief description and references to the RS requirements for descriptive notation **Gas carrier** are replaced by the following text:

"

Distinguishing mark or descriptive notation	References to RS requirements
<p>Gas carrier type 1G Gas carrier type 2G Gas carrier type 2PG Gas carrier type 3G</p> <p>The descriptive notation is added to the character of classification of gas carriers carrying liquefied gases in bulk (LG):</p> <p>gas carriers type 1G; gas carriers type 2G; gas carriers type 2PG; gas carriers type 3G.</p> <p>If an LG carrier is intended for the carriage of one specific cargo only, the name of cargo, its design temperature, in °C, and design density, in kg/m³, may be additionally indicated in brackets after the descriptive notation Gas carrier, for example, Gas carrier type 2G (ethylene, – 104 °C, 560 kg/m³).</p> <p>For LG carriers intended for the carriage of liquefied natural gas (LNG), an entry (methane) shall be additionally added after the descriptive notation Gas carrier, for example, Gas carrier type 2G (methane).</p> <p>The descriptive notation is assigned if the LG carrier is intended for periodical operation at a fixed location as FPU with descriptive notations FPSO(LG), FSO(LG) or FSRU</p>	<p>Rules for the Classification and Construction of Ships Carrying Liquefied Gases in Bulk (entirely) Rules for Membrane Containment System for Liquefied Natural Gas (if applicable, depending on the type of cargo tanks) Rules for the Classification and Construction of Sea-Going Ships</p> <p>Part II "Hull", 3.5 Part III "Equipment, Arrangements and Outfit", 2.9.4, 5.7, 7.11 Part IV "Stability", 3.4 Part V "Subdivision", 1.1.1.6, 3.4.6 Part VI "Fire Protection", Section 1, 2.1, 2.4, Sections 3, 4 5 (specific requirements to ship type in 1.4.3, 2.4, item 17 of Table 3.1.2.1, 3.10.2.4, 3.10.3.2, 5.1.3) Part VII "Machinery Installations", 1.1.2, 2.3.1, 3.2.10, 3.2.12, 4.5.10 — 4.5.13, 7.4.7.2, 7.4.8.2 Part VIII "Systems and Piping", 7.2.5, 8.7.4, 11.1.3, 12.2, 13.7.8, 13.12 Part IX "Machinery", 6.2.1.2, 6.2.1.8, 6.2.1.11 Part XVII "Distinguishing Marks and Descriptive Notation in the Class Notation Specifying Structural and Operational Particulars of Ships", Section 9 (if applicable)</p> <p>Rules for the Equipment of Sea-Going Ships</p> <p>Part II "Life-Saving Appliances", 2.4.1, 4.1.1.6, 4.1.1.7, 6.16.4, 6.20.1.2 Part IV "Radio Equipment", 2.2.6, 4.1.19</p> <p>Rules for the Cargo Handling Gear of Sea-Going Ships 1.6</p>

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13 **Table 2.5.** In **item 1.19** brief description and references to the RS requirements for descriptive notations **FSO**, **FPO**, **FPSO**, **FSPM** and **SSPM** are replaced by the following text:

"

Distinguishing mark or descriptive notation	References to RS requirements
<p>FSO (floating storage and offloading unit) The descriptive notation is assigned to floating installations intended for intake, storage and offloading of products</p>	<p>FPU Rules (entirely) FPU Equipment Rules (entirely)</p>
<p>FPO (floating production and offloading unit) The descriptive notation is assigned to floating installations intended for production, intake, processing and offloading of products</p>	<p>FPU Rules (entirely) FPU Equipment Rules (entirely)</p>
<p>FPSO (floating production storage and offloading unit) The descriptive notation is assigned to floating installations intended for production, intake, processing, storage and offloading</p>	<p>FPU Rules (entirely) FPU Equipment Rules (entirely)</p>
<p>FSPM (floating single point mooring) The descriptive notation is assigned to floating single point mooring intended for mooring of oil tankers or FPU and for offloading of products at sea or at anchorage</p>	<p>FPU Rules Part I "Classification", 1.2.1, 2.2.5 Part III "Equipment, Arrangements and Outfit", 1.3.4, 3.1.2, 3.1.3, 4.5.5 – 4.5.7, 8.4 Part V "Subdivision", 1.5, 2.2.6 Part VII "Machinery Installations", 2.3 Part VIII "Systems and Piping", 3.5 Part XI "Electrical Equipment", 2.1.3 FPU Equipment Rules (entirely)</p>
<p>SSPM (stationary single point mooring)</p>	<p>FPU Rules Part I "Classification", 1.2.1, 2.2.5</p>

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Distinguishing mark or descriptive notation	References to RS requirements
The descriptive notation is assigned to stationary single point mooring intended for mooring of oil tankers or FPU and for offloading of products at sea or at anchorage	Part III "Equipment, Arrangements and Outfit", 1.3.4, 3.1.3 Part V "Subdivision", 2.2.6, 3.4 Part VII "Machinery Installations", 2.3.4, 2.3.5 Part VIII "Systems and Piping", 3.5 Part XI "Electrical Equipment", 2.1.3 FPU Equipment Rules (entirely)

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14 **Table 2.5.** In **item 1.19** the descriptive notation **gas carrier** is deleted.

15 **Table 2.5.** In **item 1.20** brief description for distinguishing mark **(ESP)** is replaced by the following text:

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Distinguishing mark or descriptive notation	Brief description	References to RS requirements
(ESP)	The distinguishing mark is mandatorily added to the character of classification of self-propelled ships with descriptive notations Chemical tanker, Oil tanker, Bulk carrier, Self-unloading bulk carrier, Ore carrier or the word combinations (Oil/bulk carrier, Oil/ore carrier, etc.) after the descriptive notation. Also applied when adding descriptive notation FSO or FPSO to the character of classification (added after the descriptive notation for self-propelled ships). This means the necessity to survey these ships based on the Enhanced Survey Programme (not applied to floating installations with descriptive notations FPSO(LG), FSO(LG) or FSRU)	Rules for the Classification and Construction of Sea-Going Ships Part I "Classification", 2.2.48 FPU Rules Part I "Classification", 2.2.3

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