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### INDEX OF REVISIONS

REV.	DESCRIPTION AND/OR REVISED SHEETS
0	ORIGINAL. (Cancels and replaces I-ET-3010.00-5400-947-PPC-016 INFLATABLE LIFERAFT).

	REV. 0	REV. A	REV. B	REV. C	REV. D	REV. E	REV. F	REV. G	REV. H
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TECHNICAL SPECIFICATION

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REV. 0

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TITLE: INFLATABLE LIFERAFT


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ESUP

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## 1 OBJECTIVE

This document establishes mandatory requirements for inflatable liferaft and corresponding davit systems specification, which shall be installed in the Offshore Units.

## 2 DEFINITIONS AND ABBREVIATIONS

### 2.1 Abbreviations

- **DPC:** Diretoria de Portos e Costas.


### 2.2 Definitions

- **Davit:** Structure, made of steel, which is used to launching a lifeboat;
- **Inflatable liferafts:** Lifeboat self-inflating, not motorized, for the abandonment of people from maritime units in emergency situations.

## 3 APPLICABLE REGULATIONS, CODES AND STANDARDS

Regulations to be followed in the design, installation and testing of the inflatable liferafts are stated below:

- IMO - SOLAS: Convention for the Safety of Life at Sea – 1974 and Amendments in Force;
- IMO - LSA CODE: International Life-Saving Appliances – 2003 Edition;
- IMO Resolution MSC 81(70): Testing of Life-Saving Appliances;
- Requirements of the Classification Society of the Unit;
- Applicable Rules of the Brazilian Maritime Administration (DPC) – NORMAM.

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## 4 TECHNICAL REQUIREMENTS

### 4.1 General

All the equipment and fittings of the inflatable liferafts and corresponding davit assembly shall be in accordance with IMO-LSA CODE.

### 4.2 Requirements for Inflatable Liferafts

- 4.2.1 The inflatable liferafts shall have their capacities as defined in the corresponding inflatable liferaft and davit data sheet, and shall be built to stay stable in high sea when entirely inflated and with its hoisted coverings.
- 4.2.2 The liferafts shall be built to resist, without damages for itself or for its equipment, being released to the sea from its stowage place. The shot cable shall be of a compatible length considering the stowage height of the liferaft.
- 4.2.3 The liferafts shall be provided with a covering of automatic frame when the liferaft fills out. This covering shall be able to protect its occupants against bad weather and to collect rainwater. It shall be provided with two lamps fed by a battery, activated by contact with seawater.
- 4.2.4 The coverings of the liferafts shall be orange safety color (Munsell 2 YR 6/14).
- 4.2.5 The inflatable liferafts shall be conditioned in a fiberglass container, built in a way to resist the weather. The container shall be painted with an anti-corrosion white color (Munsell 9.5) paint and it shall be supported by a metallic cradle fasten to the container.
- 4.2.6 The liferafts shall be supplied with its respective cradles and hydrostatic release units.
- 4.2.7 The liferafts with mass above 185 kg and stowed above 4.5 m shall be thrown away to the sea using a release device (davit).
- 4.2.8 The liferafts shall be inflated automatically in up to 60 seconds, at an ambient temperature, by means of a non-toxic gas.
- 4.2.9 The liferafts shall have approved testing in accordance with applicable Regulation, Codes e Standards.
- 4.2.10 The liferaft shall have, around the body float, a lifeguard line and a bottom design that, in case of capsizing, shall permit the liferaft to be righted in a seaway and in calm water by one person.
- 4.2.11 A cable for towing the liferaft shall be supplied fixed to it.

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4.2.12 The liferafts shall have reflective stripes in gray color on the covering and in the external side for better visualization.

4.2.13 A person, using lifejacket, shall be able to embark in the liferafts, leaving of the water, without help.

4.2.14 In case of any float compartment being damaged, the intact ones shall be able to support, with positive freeboard over the liferafts entire periphery, the number of persons which the liferaft is permitted to accommodate, each having a mass of 75 kg and seated in their normal positions.

### 4.3 Equipment

4.3.1 Liferaft shall be supplied as specified above and also:

- One (01) weak link, according to item 4.1.6.2 of the LSA Code;
- One (01) hydrostatic release, according to item 4.1.6.3 of the LSA Code.

### 4.4 Davit

4.4.1 The release device shall be supplied assisting the requirements prescribed in SOLAS and LSA Code.

## 5 MINIMUM DOCUMENTS REQUERIDED

The equipment's Certificates of Approval issued by Marinha do Brasil – DPC.