



CERTIFICATE NUMBER  
15-LD1439867-PDA

DATE  
26 Nov 2015

ABS TECHNICAL OFFICE  
London Engineering Department

# CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of  
**OCENCO INCORPORATED**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Emergency Escape Breathing Device (EEBD)**

Model: **M-20.2 EEBD**

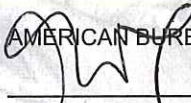
This Product Design Assessment (PDA) Certificate 15-LD1439867-PDA, dated 26/Nov/2015 remains valid until 25/Nov/2020 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

  
Serkan Balakan  
Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

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**Tier: 3 - Type Approved, unit certification not required**

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**Product:** Emergency Escape Breathing Device (EEBD)

**Model:** M-20.2 EEBD

**Intended Service:**

Intended to provide the user respiratory protection against hazardous atmospheres while escaping to an area of safety.

**Description:**

The M-20.2 EEBD is a belt wearable, compressed oxygen, closed circuit emergency breathing device

**Rating:**

NIOSH 10 Minute approved self contained, self rescuer. Approval Number TC-13F-386. ISO 23269-1:2008 15 minute rated duration.

**Service Restriction:**

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

- 1) Not intended for use in fire fighting fires, entering oxygen deficient voids or tanks, or worn by firefighters..
- 2) 15 Year Service Life.
- 3) Visual inspection per M-20.2 EEBD Instruction Manual.

**Comments:**

Manufacturer's trademark and serial number, shelf life with accompanying manufacture date and name of approving authority are printed on each EEBD. Maintenance requirements are listed in the M-20.2 EEBD Instruction Manual. Hydrostatic testing of the cylinder is not required in service.

**Notes/Drawing/Documentation:**

- Drawing No. Advanced Packaging Test Report Sep 8 1997, Revision: -
- Drawing No. M-20-2 Donning Test - EC 2 3 2, Revision: -
- Drawing No. M-20-2 Environmental Conditioning and Sinusoidal Vibration Test 2010, Revision: -
- Drawing No. N22003, N20.2 Main Assembly, Revision: L
- Drawing No. Test Report 9509-2 September 3 1997, Revision: -

**Terms of Validity:**

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## STANDARDS

**ABS Rules:**

The Rules for Conditions of Classification, Part 1 2015 Steel Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4

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**National:**

USCG 42 CFR, Part 84.

**International:**

Conforms to Council Directive 89/686/EEC relating to personal protective equipment when assessed and examined against harmonised standard EN400 (1993) SOLAS 1974 Chapter II-2/13.3.4, II-2/13.4.3; ISO 23269-1:2008 Emergency Escape Breathing Devices (EEBD) for Shipboard Use.

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

IMO Resolution MSC.98 (73) Chapter 3.2.2 (FSS Code), IMO Resolution MSC/Circ.849. ISO 23269-1:2008, 1993 IGC Code Ch.14, Section 4, 1998 IBC Code Ch.14, Section 2