



CERTIFICATE NUMBER
18-HS1737377-PDA

DATE
24 May 2018

ABS TECHNICAL OFFICE
Houston OED - Safety

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: **Ocenco Model M-20.3 EEBD/CCER with Faceshield**

This Product Design Assessment (PDA) Certificate 18-HS1737377-PDA, dated 24/May/2018 remains valid until 23/May/2023 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

Dustin De Los Santos

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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).

OCENCO INCORPORATED

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Tier: 3 - Type Approved, unit certification not required

Product: Emergency Escape Breathing Device (EEBD)

Model: Ocenco Model M-20.3 EEBD/CCER with Faceshield

Intended Service:

Emergency Escape Breathing Device intended to provide the user respiratory protection against hazardous atmospheres while escaping to an area of safety.

Description:

The M-20.3 EEBD is a self contained, compressed oxygen, closed circuit emergency breathing device with a 10 minute service duration. The unit is fitted with a with flame resistant hood and stored in a sealed container.

Rating:

Minimum 10 minute service duration per 2015 IMO Fire Safety Systems (FSS) Code Chapter 3, Reg. 2.2
NIOSH CAP 1-20L Closed Circuit Escape Respirator. Approval Number NIOSH/MSHA TG-13G-0007, CAP 1-20L
CCER

Service Restriction:

- 1) 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.
- 2) The EEBD shall include a hood, which completely covers the head and neck, with a clear window for viewing and constructed of flame-resistant materials, to protect the eyes, nose and mouth during escape.
- 3) The EEBD shall only be used for escape purposes. The EEBD shall not be used for fighting fires, entering oxygen deficient voids or tanks, or worn by firefighters.
- 4) The EEBD is not suitable for offshore hydrocarbon drilling and production operations where H₂S may be present. These applications require positive pressure breathing devices.

Comments:

- 1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- 2) This assessment has not been performed on behalf of any flag administration.
- 3) Maintenance and Shelf Life to be in accordance with the Manufacturer's Manual.
- 4) Brief instructions or diagrams clearly illustrating their use are to be clearly printed on the EEBD. The donning procedures are to be quick and easy, to allow for situations where there is little time to seek safety from a hazardous atmosphere.
- 5) Maintenance requirements, manufacturer's trademarks and serial number, shelf life with accompanying manufacture date and name of approving authority are to be printed on each EEBD. All EEBD training units are to be clearly marked.
- 6) The EEBD, when stored, is to be suitably protected from the environment.
- 7) Hydrostatic testing of the cylinder is not required in service.

Notes/Drawing/Documentation:

NIOSH Test Data Sheet TN-20206 Man Test 4, SCBA - Operating and Breathing (10 min)
Ocenco M-20.3 EEBD Physical Characteristics and Performance Product Information Sheet
Dwg. N24000, Rev. F, M-20.3 Main Assembly

Terms of Validity:

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STANDARDS

ABS Rules:

2018 ABS Steel Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-7-3/15.7, 5C-7-6/5.17

National:

NA

International:

2014 SOLAS Consolidated Edition Ch. II-2, Regulation 13.3.4 & 13.4.3
2015 IMO Fire Safety Systems (FSS) Code Chapter 3, Reg. 2.2

Government:

NA

EUMED:

NA

OTHERS:

NA