CERTIFICATE NUMBER	25-0286171-PDA
EFFECTIVE DATE	02-Sep-2025
EXPIRY DATE	01-Sep-2030
ABS TECHNICAL OFFICE	Corporate HR Aspire

CERTIFICATE OF

Product Design Assessment

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

OCENCO INCORPORATED

located at

10225 82ND AVENUE, , PLEASANT PRAIRIE, WI, United States, 53158

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

This Product Design Assessment (PDA) Certificate remains valid until 01/Sep/2030 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Daniel Hyun SON

Hyun Young Son,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 ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

Sensitivity: Internal & Restricted

OCENCO INCORPORATED
10225 82ND AVENUE
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Telephone: 262-947-9000
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Web: www.ocenco.com

Tier: 3 - Type Approved, unit certification not required

Product: **Emergency Escape Breathing Device (EEBD)**
Model: **M-20.2 EEBD**
Endorsements:

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:
10-minutes NIOSH-approved self-contained, self-rescuer device.
NIOSH (American National Institute for Occupational Safety and Health) approval number: TC-13F-386.
15-minutes rated duration according to ISO 23269-1:2008.

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 only be used for escape purposes. Not intended for use in fire fighting fires, entering oxygen deficient voids or tanks, or worn by firefighters.
3). 15 Year Service Life.
4). Visual inspection per M-20.2 EEBD Instruction Manual.
5). 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). 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.
4). Manufacturer's trademark and serial number, shelf life with accompanying manufacture date and name of approving authority are printed on each EEBD.
5). Maintenance requirements are listed in the M-20.2 EEBD Instruction Manual.
6). Hydrostatic testing of the cylinder is not required in service.
7). The EEBD, when stored, is to be suitably protected from the environment.
8). Continued compliance with the statutory requirements requires maintenance of full Type Approval(PDA+MA). The scope of Type Approval is to comply with MSC.1/Circ. 1221 dated 11 December 2006.
9). Unless specifically directed by Administration, this approval is not to be construed as a substitute for Flag Administration's approval for the purpose of SOLAS, as amended and IMO MODU Code, as amended.
10). This certificate may not be used for EU and US flagged vessels (MED and/or USCG have their own specific requirements).
11). Individual review to the intended use on specific vessel, MODU or facility is required.

Notes/Drawing/Documentation:
Drawing No. ISO 90012015 QMS Certification.
Drawing No. M-20.2 MED Mod B certificate.
Drawing No. N22003 (MAIN ASSEMBLY DRAWING).
Test report No. 13458 (M-20.2 ENVIRONMENTAL CONDITIONING AND SINUSODIAL VIBRATION TEST 2010) - Pleasant Prairie, WI, USA, 06-Apr-2010.
Test report No. EC.2.3.2 (DONNING TEST REPORT) - Kenosha, WI, USA, 22-Sep-1997.
Test report No. 9509.2 (SALT SPRAY (FOG) TEST) - Kenosha, WI, USA, 03-Sep-1997.

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Terms of Validity:
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Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

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STANDARDS

ABS Rules:
ABS Rules for Conditions of Classification, Part 1A Ships (2025): 1A-1-4/7.7, 1A-1-A3 and A4, which covers the following:
2025 Rules for Building and classing Marine Vessels: 4-7-3/15.7.
ABS Rules for Conditions of Classification, Part 1B Offshore (2025): 1B-1-4/9.7, 1B-1-A2 and A3.

National:
42 CFR, Part 84.

International:
Conforms to Regulation (EU) 2016/425 relating to personal protective equipment when assessed and examined against harmonized standard EN13794:2002.
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.
EN 13794:2002 Respiratory protective devices; Self-contained closed-circuit breathing apparatus for escape; Requirements, testing, marking.

Government:
NA

EUMED:
Approved in accordance with the requirements for emergency escape breathing devices (EEBD), fire protection item MED/3.41 of the European Union Marine Equipment Directive 2014/90/EU.

OTHERS:
IMO Resolution MSC.98 (73) Chapter 3.2.2 (FSS Code), IMO Resolution MSC/Circ.849.