



MARINE DIVISION

Certificate number: 10592/C0 BV

File number: ACI 3000/022/001

Product code: 5808H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

OCENCO INCORPORATED

Pleasant Prairie WI - UNITED STATES OF AMERICA

for the type of product

EMERGENCY ESCAPE BREATHING DEVICES (EEBD)

type OCENCO M-20.2

Requirements:

SOLAS 1974 as amended, Chapter II-2

IMO Circular MSC / Circ.849

Testing standards EN400:1993 & EN13794:2002

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 19 Oct 2016

For BUREAU VERITAS,

At BV PORT EVERGLADES CENTRE, on 19 Oct 2011,

Flavio Rosas



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The **OCENCO M-20.2** is a belt worn or stored, compressed-oxygen, emergency escape breathing device (EEBD) to provide personnel breathing protection for at least 15 minutes against a hazardous atmosphere while escaping from any area of toxic gas or oxygen deficiency to an area of safety.

Other materials and/or components:

- mouthpiece assembly
- oxygen assembly
- scrubber assembly
- breathing bag assembly
- hood
- storage case

2. DOCUMENTS AND DRAWINGS:

2.1 - Design Drawings

M-20.2 MAIN ASSEMBLY - CE	N22003 Rev. G
M-20 CYLINDER	C15519 Rev. H

2.2 - Manual(s) for installation, use and maintenance

INSTRUCTION MANUAL	NH22050 Rev.E, 21-Oct-97
INSTUCTION BOOKLET P/N 340019	C15991 Rev. C, ECN 2387

3. TEST REPORTS:

Type tested in accordance with the provisions of EN400: 1993

- Ocenco Incorporated test reports of exhibit 3
- Advanced Packaging Technologies, Inc. Report 9509.1
- Advanced Packaging Technologies, Inc. Report 9509.2
- Ocenco Incorporated test report E155000.doc

"OCENCO M-20.2 EEBD NIOSH Approval", letter reference TN-05546.1,
Approval TC-13F-269 issued on 12.11.1991, letter reference TN-09017,
Approval TC-13F-386 issued on 26.11.1996,

EC TYPE EXAMINATION CERTIFICATE NO: 743 issued on 19.07.1999 by INSPEC Certification Limited (NB 0194).

- Document Witnessed testing 080430, dated 5/02/2010, as per EN13794 (E-mail dated 01/05/2008, from INSPEC International)
- EC Type Examination Certificate: 1803, dated 04/05/2008, as per EN 13794:2002, from INSPEC International
- EBA 6.5 Inspection and Test Plan number no. ITP1742, as per EN 13794:2002.

4. APPLICATION / LIMITATION:

4.1 - Emergency escape use only: Not to be used for fire fighting or when entering oxygen deficient tanks or voids, or worn by fire-fighters.

4.2 - Service life : the equipment may remain in service for fifteen years from the date of manufacture, provided the conditions of use are observed. It must be either stored or belt worn, according to the conditions of use, throughout its service life. It may be deployed in the belt worn configuration for 5 continuous years during its 15 year service life.

4.3 - The equipment is to be stored on board according to manufacturer's instructions and if worn, it must be belt worn on the person.

4.4 - Manufacturer's instruction (see 2.2 above) should accompany every apparatus on delivery and should be kept on board.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The "**OCENCO M-20.2**" are to be manufactured, examined and tested by "**OCENCO INCORPORATED**" in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

5.2 - Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end "**OCENCO INCORPORATED**" has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

5.3 - "**OCENCO INCORPORATED**" has declared to Bureau Veritas that the type of product described in this certificate may be manufactured at the following production site:

OCENCO INCORPORATED
10225 82nd Avenue
53158 Pleasant Prairie WI
UNITED STATES OF AMERICA

6. MARKING OF PRODUCT:

Marking as per paragraph 8 of EN 13794(2002):

6.1 - On the apparatus:

- Manufacturer's name
- Equipment name
- Equipment type
- Rated duration
- EN 13794: 2002
- Serial number
- Manufacture year
- Shelf life
- Brief instructions or diagrams clearly illustrating the application
- Name of approving authority

6.2 - on the cylinder:

- The charging pressure (bar)
- The capacity (normal liters)
- The stamp of the authorized third inspection body

6.3 - All training units shall be clearly marked.

7. OTHERS:

7.1 - This approval is given on the understanding that the manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes Certificate of Type Approval N° 10592/B0 BV issued on 13/09/2006 by Bureau Veritas.

*** END OF CERTIFICATE ***