

MARINE DIVISION

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Certificate number: 20251/A0 EC

File number : RAD 04/28725/03

Annex A1 Item number : A.1/5.3

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

EC TYPE EXAMINATION CERTIFICATE

as per Module B of European Union Council Directive 96/98/EC on marine equipment
as last amended by Commission Directive 2002/75/EC of 2 September 2002

This certificate is issued to

Japan Marina Co., Ltd.

Tokyo - JAPAN

for the type of product

NAVTEX RECEIVER

Type: JMC NT-1800 / NAVTEX 2918 / TOKIMEC TRN-1800 / ALDEN AE-1800.

Regulations and standards :

SOLAS 74, as amended, Regulations IV/7.1.4, X/3, IMO Resolution MSC.36(63)14.6.1.4(1994 HSC Code), MSC.97(73)14.7.1.4(2000 HSC Code), A.525(13), A.694(17), MSC.148(77), ITU-R M.540-2 (06/90), ITU-R M.625-3 (10/95), IEC 60945 (2002), IEC 61097-6 (ed2-2005), IEC 61162.

This certificate is issued under the French Maritime Authority to attest that BUREAU VERITAS did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 as amended



This certificate is valid until : 09 Jun 2013

At Paris la Défense, on : 09 Jun 2008

For BUREAU VERITAS, Notified Body N°0062

By order of the Secretary

Approval office

Local office : BV KOBE

Surveyor : M. Kakimoto

L. COURREGELONGUE



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

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. BUREAU VERITAS S.A. is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division. 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 :

Navtex receiver Type: JMC NT-1800 / NAVTEX 2918 / TOKIMEC TRN-1800 / ALDEN AE-1800.

The equipment comprises:

- radio receivers
- a signal processor
- a dedicated display device
- printer output port and a thermal printer (option)
- a non-volatile message memory
- connection to an integrated navigation system (INS).

1.1 Main Features:

1.1.1 Receiving Frequency:

518 kHz(first receiver), 490 kHz & 4209.5 kHz (second receiver)

1.1.2 Type of Reception:

FIB, (FEC) mode

1.1.3 Sensitivity:

Better than 1 μ V/ 50 ohm ant. input

1.1.4 Input Protection:

Capable of withstanding 30V rms of RF signal

1.1.5 Display screen:

5.7" (diagonal) color TFT, QVGA (320X240 pixels)

1.1.6 Navtex Messages:

40 characters per line, 18 lines per screen

1.1.7 Message Storage:

capacity: 200 messages of average length 500 characters
duration: 60 hours 20 minutes - maximum per message

1.1.8 Message tagging/Protection:

Permanent storage in up to 25% of non-volatile memory (equivalent to approx. 50 messages)

1.1.9 External I/O Specifications:

- Printer interface: RS-232C
- IBS/INS: RS-422
- Additional I/O port: I/O DATA
- Approved sentences as per NMEA 0183/ IEC 61162-1

1.1.10 Power Requirements: 24VDC

1.1.11 Printer Specifications:

PR-900 : Thermal moving head type, 40 characters/line

1.1.12 ANT-2000M Active Antenna Specifications:

Type: 3-frequency active Whip antenna, 1.2 m, with preamplifier

1.1.13 Software version: 1.0

2. DOCUMENTS AND DRAWINGS :

2.1 - Operation & Installation Manual:

2.1.1 - UM-NT1800-1 - 1st Ed.dated Oct. 2007

2.1.2 - UM-AE1800-1.0 - 1st Ed.dated Jan. 2008

2.1.3 - P/N 271.259 818 - 1st Ed.dated Mar. 2008

2.2 - Before changes can be implemented, new drawings and documents must be provided to Bureau Veritas for review and acceptance. The new drawing list will be stamped and endorsed accordingly.

3. TEST REPORTS :

3.1 - TOKIMEC Test report N° BV-NT 1800-TA-01 dated 31/Oct./2007.

3.2 - Research Institute of Marine engineering Test report N° 07-483E dated 11/Jan./2008.

3.3 - KENTA Test reports N° 203 900 dated Apr.2008 (Performance and environmental tests).

3.4 - Reviewed for validation by the Society.

4. APPLICATION / LIMITATION :

As per requirements of Regulations stated on front page of this certificate.

5. PRODUCTION SURVEY REQUIREMENTS :

This certificate does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D "Production Quality Assurance" or E "Product Quality Assurance" or F "Product Verification" of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

6. MARKING OF PRODUCT :

6.1 - Maker's name or trade mark,

- Serial number of the units,

- Equipment type number or model identification under which it was type-tested,

- Minimum safe distance at which the equipment may be mounted from a standard and a steering magnetic compass,

6.2 - Markings as per MED 96/98/EC when authorized by a Notified Body:

⊗ YYYY/XX where YYYY is the number of the Notified Body undertaking surveillance module (when BV, 0062) and

where XX are the last two digits of year mark affixed.

6.3 - Alternatively, the marking may be presented on a display at equipment start-up.

6.4 - The title and version of each software element included in the installed software system shall be either marked or displayed on command on the equipment.

6.5 - When the marking and the title and version of the software are displayed only on the display, such information shall also be included in the equipment manual.

7. OTHERS :

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the Navtex Receiver at any time, and that **Japan Marina Co., Ltd, Tokyo - Japan** will accept the responsibility for informing shipbuilders or their sub-contractors of the proper methods of use and general maintenance of the Navtex Receiver and of the conditions of this approval.

*** END OF CERTIFICATE ***