



DET NORSKE VERITAS

CONFORMITY ASSESSMENT CERTIFICATE

CERTIFICATE NO. A-13330
This Certificate consists of 2 pages

This is to certify that the

System Electronic Navigational Charts (SENC) Distribution

with type designation(s)

SENC Distribution Process

Manufactured by

Jeppesen Norway AS
EGERSUND, Norway

is found to comply with

The Norwegian Hydrographic Service (NHS) requirements for SENC distribution, detailed in "Specification for Distribution of Authorised Navigational Chart Data in SENC Format", Technical Report No. 2002-1392 Revision No. 02

This Certificate is valid until **2018-06-30**.

Issued at **Høvik** on **2013-06-24**

DNV local station: **DNV Stavanger**

Approval Engineer: **Finn H. Spone**



Digitally Signed By: Laumann, Marit

Location: DNV Høvik, Norway

Signing Date: 2013-06-26

Jan Tore Grimsrud
Head of Section
TNANO383, Bridge Systems

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
Except for any liability caused by DNV's gross negligence or wilful misconduct, DNV's maximum cumulative liability arising out of or related to the use or reliance of this document shall be limited to USD 300 000.

Certificate No.: A-13330
Item No.: 849.10
Job Id.: 262.1-004884-2

Product description

SENC Distribution Process as described in the Jeppesen Norway document "SENC Distribution Management and End User Information".

Application/Limitation

- The Specification for Distribution of Authorised Navigational Chart Data in SENC Format, Technical Report No. 2002-1392 Rev.02, gives PRIMAR's implementation of IHO Technical Resolution A3.11.
- All changes to the process (procedures and technical tools) are to be evaluated, prior to implementation, on basis described in Technical Report No. 2002-1392 Rev.02, and communicated with DNV as appropriate.
- This certificate covers only the distribution of authorised navigational chart data in the CM-93/3 SENC Format.

Type Approval documentation

- Assessment with regard to the Requirements in Technical Report No. 2002-1392 Rev. 01 "Specification for Distribution of Authorised Navigational Chart Data in SENC Format, Doc. No.: 2002-1618 Rev. 01.
- SENC Distribution Management and End User Information.
- Specification of Minimum Performance.

Tests carried out

- Tests in accordance with "Specification for Distribution of Authorised Navigational Chart Data in SENC Format", Technical Report No. 2002-1392 Revision No. 02, Section 5.1.
- Audits in accordance with "Specification for Distribution of Authorised Navigational Chart Data in SENC Format", Technical Report No. 2002-1392 Revision No. 02, Section 5.2

Periodical Audit

Periodical audits to be performed annually by DNV to ensure that the quality management system and the SENC distribution procedures are maintained and properly functioning. The scope of these annual audits shall be in line with the periodical audits defined in COUNCIL DIRECTIVE 96/98/EC (Marine Equipment Directive).

END OF CERTIFICATE