

Certificate No:
MED-B-9202
Item No:
A.1/4.33
Job Id:
344.1-004099-1

EC TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2012/32/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Track control system

with type designation(s)
AP80 Track

Issued to

Navico Holding AS
EGERSUND, Norway

is found to comply with the requirements in the following Regulations/Standards:


Annex A.1, item No. A.1/4.33 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation V/18 & V/19, IMO Res A.694(17) and IMO Res MSC. 74(69) & 191(79)

Further details of the equipment and conditions for certification are given overleaf.

Høvik, 2014-10-15
for **DNV GL AS**

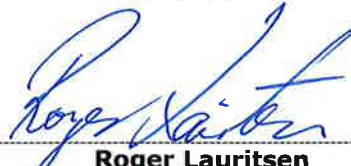


This Certificate is valid until
2015-08-15

for 
Marianne Strand Valderhaug
Head of Department

Notified Body No.: **0575**

DNV GL local office:
**Nautical Safety &
Communication Systems**


Roger Lauritsen
Surveyor

F. W. W.



The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this Certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

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Product description

See Appendix.

For latest revision of the Appendix, see <http://exchange.dnv.com/tari>

Application/Limitation

- See Appendix.
- The installation shall be verified and tested onboard according to AP70/80 Installation manual.

Type Examination documentation

- See Appendix.

Tests carried out

- Performance testing, IEC 62065 (2002)
- Performance testing, presentation, IEC 62288 (2008)
- Environmental testing, IEC 60945 (2002)
- Serial interface testing, IEC 61162-1 (2010)

Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location and in addition the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and/ or supply voltage.

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

USCG Approval

An U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of certificates of conformity for marine equipment" signed 17 October 2005.



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APPENDIX REV. NO. 1 (PAGE 1 OF 1)

Product description

AP80 Track consisting of the following components:

- CS68, ECDIS
- AP80 Heading control system *)

*) Note that certificate for AP80 HCS also list a AP70 HCS that is not approved for TCS.

Software Modules:

- CS68 ECDIS, version 3.2.xx
- AP80 HCS, version 1.2.xx

Application/Limitation

- The system shall be connected to an alarm transfer system for transfer of back-up navigator alarms.
- The AP80 Track complies with the requirements for Category C Track Control Systems (Track control along pre-planned straight and curved tracks).
- The ECDIS and HCS identified in the product description as well as the heading, speed and positioning sensors being interfaced shall hold a valid type approval certificate.

Type Examination documentation

DNV No	Document ref	Rev.	Description
5	988-10674-001		Manual: Addendum for AP70/80, sw release 1.2
4	TNP20140801-01	1	Report: FMEA track system
2	TNP20131219-01	1	Report: Track control performance test TNP20131219-01

Place and date
HØVIK, 2014-10-15



Roger Lauritsen
Surveyor



END OF CERTIFICATE