



中国船级社
CHINA CLASSIFICATION SOCIETY

证书格式号/Form: T01.02-DB000006

型式认可证书
CERTIFICATE OF TYPE APPROVAL

证书编号/Certificate No. BG14T00009

兹证明本证书所述制造厂生产的下列产品能够满足下面列明认可标准的要求。

This is to certify that the following products produced by the manufacturer stated in the certificate can meet the requirements of the approval standards listed below.

认可产品/ Product Approved

航向控制系统
HEADING CONTROL SYSTEM

制造厂/ Manufacturer

Navico Holding AS

Nyaskaiveien 2, N-4370 EGRSUND, Norway

附加标志/ Notations

无/Nil.

认可标准/ Approval Standard

- 1.MSC. 64(67) 附件3 《航向控制系统性能标准建议书》
MSC. 64(67) ANNEX 3 RECOMMENDATION ON PERFORMANCES STANDARDS FOR HEADING CONTROL SYSTEMS
- 2.国际海事组织第A.694(17)决议
IMO A.694(17)
- 3.《1974国际海上人命安全公约》及其修正案第5章第18, 19条, 第10章第3条
SOLAS 74 as amended, Reg. V/18,V/19, Reg. X/3
- 4.IMO决议A.342 (IX), A.822(19)
IMO Resolution A.342 (IX), A.822(19)
- 5.IMO 海安会决议MSC.191 (79)
IMO Resolution MSC 191 (79)
- 6.IMO 《2000年高速船安全规则》第13章
IMO 2000 HSC Code, Cha.13

证书有效期至/ This Certificate is valid until

2017年2月24日 / Feb. 24, 2017

发证机构 中国船级社卑尔根办事处
Issued by CCS Bergen Branch

签发日期 2014年12月11日
Date Dec. 11, 2014

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BG90767022

Nº 15069367

产品明细/ Product Description

航向控制系统/HEADING CONTROL SYSTEM
型号/Model

: SIMRAD AP70, AP80 Heading
Control System

电源/Power supply

: 12/24 VDC

系统组成/The system consist of

: Operator units, Computers, etc.
Refer Others for detail.

批准的图纸和设计计算书/ Approved Drawings and Design Calculations

图纸批准号/ Drawings Approval No. : GB12T00036

产品认可试验报告/ Approval Test Report

试验报告编号/Test Report No. : Refer to the additional page

试验报告日期/Test Report Date :

试验单位/ Laboratory :

试验单位地址/ Test Address :

产品适用范围/ Application of the Product

The HCS in the cert. can also be used on high speed craft.

认可保持条件/ Maintenance Requirements of Approval

1. 型式认可后, 如果产品及其重要零部件的设计、所用材料或制造方法有所改变, 且影响到产品的主要特性、特征; 或产品的性能指标有所更改, 且超过认可的范围, 则有关图纸和文件应经检验机构审批。并在检验机构认为必要时, 经本社检验人员见证有关试验和进行检查, 其结果应能证实仍符合认可条件。

After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.

2. 工厂的质量管理体系应保持有效运行, 并且与认可时一致。如果质量管理体系发生改变, 应经原体系认证机构审核并报本社批准。

The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.

3. 认可证书有效期内, 如果出现可能导致本社取消认可的情况, 工厂应及时采取有效的纠正措施。

Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.

4. 在认可证书有效期内, 本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核, 以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

认可后的产品检验方式/ Method of Product Inspection after Approval

按照规范逐件检验的产品/The product inspected one by one in term of the rules:

认可后的产品检验应由本社验船师根据本社规范规定逐件按批准的产品检验计划进行检验, 经检验合格后由本社颁发产品证书。

After approval, product inspection should be carried out one by one by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Product Certificate will be issued by the Society upon satisfactory inspection.

对于原材料和零部件的检验要求/ Inspection Requirements for Materials and Components

产品如下原材料和零部件应由本社认可的制造厂生产/The following materials and components of the product should be manufactured by the factory approved by the Society:无/Nil.

产品如下原材料和零部件应经本社检验, 持有本社产品证书/The following materials and components of the product should be inspected and certificated by the Society:无/Nil.

产品如下原材料和零部件的制造厂清单, 经本社批准方可变更/The list of manufacturer for the following materials and components of the product should not be changed without the Society's approval:无/Nil.



责任声明/Statement of Responsibility

本社的认可不影响、替代与本社授权或检验无关的各方对上述工厂的认可和发证，并且不对与本社授权或检验无关的各方负责，不承担其未经应允而承认、接受本社认可所导致的法律和经济责任。

The approval of the Society does not affect and replace any approval and certification of the manufacturer by any parties that bear no relation with this Society's authorization or survey and therefore takes no responsibility for these parties. The Society does not undertake any legal and economic liabilities arising from accepting this Society's certificate without prior permission from this Society.

其他/Others

本证书由原GB12T00036证书更新

This certificate is to update previous certificate No. GB12T00036

本社已审核了产品厂无石棉声明，但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。

The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society. However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.



*****本证书正文完/ End of Text*****

注：本证书含有附页，共2页

Note: The certificate is attached with 2 additional page(s)

Description for Simrad AP70,AP80 Heading Control System

AP70 / AP80 Heading control systems consist of the following components:

Unit	Description	SW Version	Location
1. Operator units:			
1) AP70 and/or	Control Unit	1.2xx	Exposed
2) AP80		1.2.xx	
2. Remote operator units			
1) QS80 (optional)	Non follow up quick stick lever	1.2.xx	Exposed
2) FU80 (optional)	Follow up lever		
3) NF80 (optional)	Non follow up lever		
4) R3000X (optional)	Portable remote control	NA	Portable
5) JS10 (optional)	Non Follow up lever		Protected
6) S35 (optional)			Exposed
7) S9			
3. Computers			
1) AC80A or	With AD80 and SI80 board	1.2.xx	Protected
2) AC80S or			
3) AC85 or	With SI80 and optional boards - AC70,AD80,SD80		
4) SI80 and	With SI80 interface board		
5) AD80 and/or	With AD80 board		
6) SD80	With SD80 board		
4. Network units			
1) CZone	Network interface	2.x	Protected
2) SG05 Pro	EVC gateway	1.2.xx	
5. Sensors(optional)			
1) RC42N	Monitor compass (not for steering)	1.3.xx	Protected
2) CD100A	Course detector	NA	Exposed
3) CD180		1.1.xx	Protected
4) GI51	Gyro compass interface	1.2.xx	Exposed
5) RF300	Rudder feedback unit	NA	
6) RF45X			
7) RF14XU			
8) RF25N		1.2.xx	
9) RF70N		1.2 xx	



Type Approval Test Reports' List

No.	Test Report No.	Report Date	Test Laboratory	Test Address
1.	96-103	1996-02-07	DNV	Veritasveien 1, NO-1322 Hovik, Norway
2.	2002-3131	2002-04-08		
3.	2003-3440	2003-11-05		
4.	2004-3514	2004-11-19		
5.	2012-3214 rev 2	2012-05-29		
6.	111002.1	2012-02-16	EMC Technologies (NZ) Ltd	PO Box 68-307 Newton, Auckland 1145 47 MacKelvie St Auckland 1021
7.	111029.1			
8.	120507.1	2012-05-17		
9.	120414.1	2012-06-06		
10.	120501.1	2012-06-11		
11.	120513.1			
12.	120622.1	2012-08-09		
13.	519241A(0016-PG-96)	1996-05-22	EMIT	Piazzale A.Cantore. 10-20123 Milano,Italy
14.	199949289	2000-01-03	NEMKO	P.O.Box 73 Blindern, N-0314, Oslo, Norway
15.	T1106-1	2012-01-17	Uniservices	P.O.Box 331146, Takapuna 0704, Auckland
16.	TNP20120601-01	2012-04-24	Navico	Nyaskaiveien 2, Egersund, N-4374, Norway
17.	TNH20120601-01	2012-05-09		
18.	TAP20120605-1	2012-06-01		
19.	TNQ20120601-01	2012-06-12		

