



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
BG19PTB00028_05

型式认可证书
CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。
This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

制造厂/Manufacturer

Kongsberg Maritime AS (Kongsberg)

地址/Address

Kirkegardsveien 45, P.O. Box 483 N-3601 Kongsberg Norway

产品名称/Product

导航设备

Navigation Equipment
桥楼航行值班报警系统 (BNWAS)
Bridge Navigational Watch Alarm System (BNWAS)

认可标准/Approval Standard

- IEC 60945:2002/COR1:2008 《船用航行和无线电通信设备及系统-通用要求-试验方法和试验结果的要求》
IEC 60945:2002/COR1:2008 Maritime Navigation and Radiocommunication Equipment and Systems - General Requirements - Methods of Testing and Required Test Results
- 国际海事组织海安会决议MSC.128(75)《桥楼航行值班报警系统(BNWAS)的性能标准》
IMO Resolution MSC.128(75) Performance Standards for a Bridge Navigational Watch Alarm System (BNWAS)
- 国际海事组织海安会决议MSC.191(79)《船载航行显示器有关航行信息显示的性能标准》
IMO Resolution MSC.191(79) Performance Standards for the Presentation of Navigation-Related Information on Shipborne Navigational Displays
- 国际海事组织大会决议A.694(17)《作为全球海上遇险和安全系统(遇险和安全系统)组成部分的船载无线电设备和电子助航设备的一般要求》
IMO Resolution A.694(17) General Requirements for Shipborne Radio Equipment Forming Part of The Global Maritime Distress and Safety System (GMDSS) and for Electronic Navigational Aids

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

证书有效期至/This Certificate is valid until 2024年07月01日/ Jul. 01,2024

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

签发日期 2020年07月01日
Date Jul. 01,2020

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Form No: T01.

联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)

UTN:P020-81866096

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Nº 17518093



产品明细/Product Description

桥楼航行值班报警系统 (BNWAS) /Bridge Navigational Watch Alarm System (BNWAS) (M0001)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	K-Bridge BNWAS	
电源/Power Source	DC 24	V
罗经安全距离/Compass Safe Distance	4	m
系统组成/System Component	See "Remarks"	
软件版本号/Software Version	See "Remarks"	
外壳防护等级/Degree of Protection of Enclosure	See "Remarks"	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : BG20PPP20002

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : DANAK-1910004 Type Approval testing of SONF1DC24G

试验报告日期/ Test Report Date : 2008-01-09

试验单位/ Laboratory: DELTA

试验单位地址/ Test Address: Horsholm, Denmark

试验报告编号/ Test Report No. : 2010-3212 Maritime Tests of Motion Sensor

试验报告日期/ Test Report Date : 2010-04-28

试验单位/ Laboratory: DNV

试验单位地址/ Test Address: Hovik, Norway

试验报告编号/ Test Report No. : 1042001 K-Bridge 5.1.x BNWAS Type Approval System

试验报告日期/ Test Report Date : 2011-10-26

试验单位/ Laboratory: Kongsberg Maritime AS

试验单位地址/ Test Address: Kongsberg, Norway

试验报告编号/ Test Report No. : 641390 K-Bridge BNWAS 4.0.x Type Approval System

试验报告日期/ Test Report Date : 2011-10-26

试验单位/ Laboratory: Kongsberg Maritime AS

试验单位地址/ Test Address: Kongsberg, Norway

试验报告编号/ Test Report No. : 75915908 Report 01 EMC Testing for BNWAS 150

试验报告日期/ Test Report Date : 2011-11-23

试验单位/ Laboratory: TUV SUD

试验单位地址/ Test Address: Hampshire, UK

试验报告编号/ Test Report No. : 75915908 Report 02 Environmental testing for BNWAS 150

试验报告日期/ Test Report Date : 2011-11-29

试验单位/ Laboratory: TUV SUD

试验单位地址/ Test Address: Hampshire, UK

试验报告编号/ Test Report No. : 419028 K-Bridge BNWAS renewal test report

试验报告日期/ Test Report Date : 2016-12-16

试验单位/ Laboratory: Kongsberg Maritime AS

试验单位地址/ Test Address: Kongsberg, Norway

试验报告编号/ Test Report No. : 677684301 Renewal testing & FAT report

试验报告日期/ Test Report Date : 2019-12-17

试验单位/ Laboratory: Kongsberg Maritime AS

试验单位地址/ Test Address: Kongsberg, Norway

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

按规范认可后应进行产品检验的产品/The product should be inspected 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船

用产品证书。

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

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.

5. 如果属于获得型式认可B 模式证书, 且无需颁发船用产品证书/等效证明文件的情况, 证书获得者应接受本社每年一次的定期审核, 定期审核日为认可证书期满之日对应的每一周年日, 检查工作应在周年日的前后三个月内进行。

If belong to the situation of the product has type approval mode B certificate, and marine product certificate/equivalent document is not necessary, those who have obtained the certificate should be subject to periodical audit every year. The date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit shall be done within a time span of three months before and after the annual surveillance date.

备注/Remarks

1. 本证书由原型式认可证书 (No. GB13T00010_01) 换新并替代原证书。

This certificate is renewed from and supersedes the previous Type Approval Certificate No. GB13T00010_01.

2. Approval history:

--Initial approval: GB13T00010_01

--First update: BG19T00028_05

3. Other product description:

1) Kongsberg Maritime K-Bridge BNWAS is implemented within the Kongsberg K-Bridge system platform, and comprises the following modules :

--Hardware:

K-Bridge Operator Station : as defined in the certificate BG19PTB00028_06.

Main Alarm Reset Panel : 308358 (Part no.), IP56

Pre-Warning Reset Panel : 8100319 (Part no.), IP56

Alarm Buzzer (Bridge) : 3700825 (Part no.), IP56

Alarm Buzzer (Cabins) : 3700688 (Part no.), IP21

Kongsberg Motion Sensor (Option): 349880 (Part no.), IP41

BNWAS IR Motion Detector X150-MD (Option): 440405 (Part no.)

--Software modules:

K-Bridge System Platform SW : As defined in the certificate BG19PTB00028_06.

2) The K-Bridge BNWAS may be delivered in K-Bridge Console KM05 or as built in version for other consoles.

3) The system shall be installed on board according to manufacturer's manuals as below:

--Kongsberg Maritime, K-Bridge BNWAS, Operator Manual Release 8.2 (429327)

- Kongsberg Maritime, Kongsberg Motion Detector Junction Box, Maintenance Manual(349952)
- Kongsberg Maritime, K-Bridge BNWAS, Installation Manual(334399)
- Kongsberg Maritime, Kongsberg Motion Detector, Installation Manual(349856)
- Kongsberg Maritime, Kongsberg Motion Detector Junction box, Installation Manual(349951)

4. For designated vessel, the arrangement drawings of the system are to be approved by the society in advance before FAT.

5. 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.

