

中国船级社  
CHINA CLASSIFICATION SOCIETY  
型式认可证书  
CERTIFICATE OF TYPE APPROVAL

证书格式号/Form: T01.01-  
DB000039

证书编号/Certificate No. NJ11T00027

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

电子海图系统  
ELECTRONIC CHART SYSTEM (ECS)

制造厂/ Manufacturer

南通赛洋电子有限公司

SAIYANG ELECTRONICS CO., LTD.

江苏省南通市中南世纪城17幢4F、5F  
4F&5F/17 ZHONGNAN CENTER CITY, NANTONG, JIANGSU

认可标准/ Approval Standard

1. 中国海事局(MSA)《电子海图系统(ECS)功能、性能和测试要求》  
MSA, Electronic chart system (ECS) - Operational, performance and test requirements

证书有效期至/ This Certificate is valid until

2015年6月1日 / Jun. 1, 2015

发证机构 中国船级社南京分社  
Issued by CCS Nanjing Branch

签发日期 2011年6月2日  
Date Jun. 2, 2011

本证书根据中国船级社《钢质海船入级规范》及有关程序规定签发。关于证书的有关规定见本证书页背面的说明。当本证书包括多页纸张时, 则所有证书页为一个整体, 必须同时使用。每一页证书均须由本社盖章方为有效。证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。本认可证书不代表本社对个体产品质量的检验。有关各方对所持证书的真实性有疑问时, 可以向本社检验机构咨询。  
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**产品明细/ Product Description**

电子海图系统/ELECTRONIC CHART SYSTEM (ECS)	
型号/Type	: ECS-9000
显示分辨率/Resolution	: 1280×1024 TFT LCD ( ≥17inch )
电源/Power Supply	: DC 24V
ENC文本格式/ENC Format	: S57/S63加密
软件版本号/Software Version	: ECS-9000 V7.0
系统组成/System components	: ECS-9000, Mouse, Keyboard
接口单元/Interface Unit	: USB, NEMA0183
罗经安全距离/Compass Safe Distance	: 1.5m

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

图纸批准号/ Drawings Approval No. : NP10A02704

**产品认可试验报告/ Approval Test Report**

试验报告编号/Test Report No. : 船检委字ER/EM2011-013  
试验报告日期/Test Report Date : 2011-05-03  
试验单位/ Laboratory : 中国船舶工业电工电子设备环境与可靠性试验检测中心  
CSIC Industry Environment and Reliability Test Center  
for Electric and Electronic Equipment  
试验单位地址/ Test Address : 扬州市南河下26号  
26, Nanhexia, Yangzho

**产品适用范围/ Application of the Product**

船舶助航/Ship navigation

**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. 工厂的专业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 professional 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**

按照规范每批抽样检验的产品/The product inspected by sampling 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每批抽样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 by sampling 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**

**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**

中国船级社南京分社

CCS Nanjing Branch

\*\*\*\*\*本证书正文完/ End of Text\*\*\*\*\*