

中国船级社 CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No. JS19PTB00142 02

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

江苏海兰船舶电气系统科技有限公司 Jiangsu Highland Integration Technology Co., Ltd.

地址/Address

江苏省南通市苏通科技产业园清枫路199号 No.199, Qingfeng Road, Sutong Science Park, Nantong City, Jiangsu

产品名称/Product

电子海图系统(ECS) Electronic Chart System (ECS)

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》 China MSA, Electronic chart system (ECS) - Operational, performance and test requirements.

用于/Intended for

国内航行海船/Domestic sea-going ship ,内河船舶/Inland waters ship

产品明细/Product Description

电子海图系统(ECS)/Electronic Chart System (ECS)(M001)

名称/Name	属性 (值) /Value	单位/Unit
型号/Type	HLD-ECS 100	
屏幕尺寸/Screen Size	19/20. 1/22/23. 1/24/26/27	inch
电源/Power Source	AC110V/220V or DC24	V
软件版本号/Software Version	V1. X	
罗经安全距离/Compass Safe Distance	≥ 37cm	
系统组成/System Component	详见附页 See additional page	







批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No.: NP10A01632, NP19PPP04252

产品认可试验报告/ Approval Test Report

试验报告编号/Test Report No.: A10-045-ZC 试验报告日期/Test Report Date: 2010-11-05 试验单位/Laboratory: 上海仪器仪表自控系统检验测试所 Shanghai Inspection and Testing Institute of Instrument and Automatic Systems 试验单位地址/Test Address: 上海漕宝路103号 103 Cao Bao Road, Shanghai

试验报告编号/Test Report No.: QC-201806-001 试验报告日期/Test Report Date: 2018-07-18 试验单位/Laboratory: 江苏海兰船舶电气系统科技有限公司 Jiangsu Highland Integration Technology Co.,Ltd 试验单位地址/Test Address: 江苏省南通市经济技术开发区苏通科技产业园清枫路199号 No.199,Qingfeng Road, Sutong Science Park, Nantong, Jiangsu

试验报告编号/Test Report No.: HLD3400ECS19 试验报告日期/Test Report Date: 2019-09-19 试验单位/Laboratory: 江苏海兰船舶电气系统科技有限公司 Jiangsu Highland Integration Technology Co.,Ltd 试验单位地址/Test Address: 江苏省南通市经济技术开发区苏通科技产业园清枫路199号 No.199,Qingfeng Road, Sutong Science Park, Nantong, Jiangsu

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

第2页共3页/Page 2 of 311 CLASSIFICATION

SSIFIC

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

本证书由原型式认可证书 (No.NJ18T00080) 变更并换新。 This certificate is modified and renewed from the previous Type Approval Certificate No.NJ18T00080.

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.

中国船级社江苏分社

CCS Jiangsu Branch 注:本证书含有附页,共1页 Note: The certificate is attached with additional 1 page(s)

66 CLASSIFICATION



ITION SO

第3页共3页/Page 3 of 3



电子海图系统系统组成

System components of Electronic Chart System (ECS)

序号 /No	部件名称/Name of Part	型号/Type	防护等级 /IP
1	电源转换单元/Power Conversion Unit (可选/Optional)	HLD-PCU100 or HLD-PCU600	IP22
2	处理单元/Processor Unit	HLD-MCU100 or HLD-MCU200 or HLD-MCU600	IP22
3	串口服务器单元/Serial Port Server Unit (可选/Optional)	HLD-SPS100	IP22
4	显示单元/Display Unit	HLD-DU100 or HLD-DU101 or HLD-DU109 or HLD-DU110 or HLD-DU111 or HLD-DU112 or HLD-DU113 or HLD-DU120 or HLD-DU133 or HLD-DU134 or HLD-DU135 or HLD-DU140 or HLD-DU141 or HLD-DU142	IP22
5	控制单元/Control Unit	HLD-IU100 or HLD-IU600	IP22





