



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
JS19PTB00049

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

智能机舱管理系统
Smart Machinery System
智能船舶运行与维护系统
Smart Vessel Operation and Maintenance System

附加标志/Notations

无/Nil.

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》2018及其修改通报第1篇第3章, 第7篇第1, 2, 3章
Chapter 3, Part One, Chapter 1, 2, 3, Part Seven of China Classification Society Rules for Classification of Sea-Going Steel Ships 2018 and its Amendments
2. 中国船级社《智能船舶规范》2015第1, 4章
Chapter 1 and 4 of China Classification Society Rules for Intelligent Ships 2015
3. 中国船级社《船舶智能机舱检验指南》(2017)
China Classification Society Guidelines for Survey of Ships Intelligent Machinery 2017

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 2021年06月23日/ Jun. 23, 2021

发证机构 中国船级社江苏分社
Issued by CCS Jiangsu Branch

签发日期 2019年07月17日
Date Jul. 17, 2019

本证书根据中国船级社规范和相关规定签发, 所有证书页为一个整体, 必须同时使用。纸质证书每页均须由本社盖章方为有效, 电子证书含数字签名方为有效。本证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关方对所持证书的真实性有疑问时, 可以向我社检验机构咨询。
This Certificate is issued pursuant to the Rules of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.

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:P019-623379

产品明细/Product Description

智能船舶运行与维护系统/Smart Vessel Operation and Maintenance System (M001)

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	智能机舱管理系统 Smart Machinery System	
型号/Type	HLD-SMS 600	
电源/Power Source	AC220/DC24	V
软件版本号/Software Version	V 1. x	
系统组成/System Component	详见附页 See additional page	
外壳防护等级/Degree of Protection of Enclosure	不适用 Not applicable	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No.: NP18A03611

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No.: HLD2300XS

试验报告日期/ Test Report Date: 2019-05-09

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 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

本证书基于原型式认可证书 (No. NJ18T00120) 变更，原证书保持有效。

This Certificate is modified from the previous Type Approval Certificate No. NJ18T00120, the previous certificate remains valid.

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.

软件控制/Software Control:

本证书仅包含软件产品。

This certificate covers software only.

与该产品配套使用的硬件应满足中国船级社规范的要求。

Hardware used for this product should be compliant with the rules of CCS.

公司应记录软件的所有变更。

All changes in software are to be recorded by the manufactory.

软件的重大变更应通知中国船级社认可执行单位，并提交相关文件进行评估。如果评估认定该变更会影响到规范中要求的功能，应重新进行相关型式试验，进行认可证书变更，变更软件版本。

Documentation of major changes is to be forwarded to CCS for evaluation. If the changes are judged to affect functionality for which rule requirements apply, a new functional type test may be required and the certificate may have to be modified to identify the new software version.

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)



系统组成/System Component

软件名称/Name of Software		软件版本号/Version of Software
智能机舱管理系统 Smart Machinery System		V1.x
系统模块 Module of System	数据分析模块 Data analysis Module	V1.x
	数据采集模块 Data Acquisition Module	V1.x

软件运行环境要求/Software Operating Environment Requirement:

硬件配置要求 Hardware Requirement	CPU: Intel 4 核 CPU 主频 2.3GHz 以上; 内存: 8GB 及以上; 硬盘: 500G 及以上; 网卡: 100 兆及以上网卡; CPU: Intel 4 cores with 2.3GHz or above; Main Memory: 8GB RAM or above; Hard Disk: 500G or above; Network Cards: Bandwidth with 100M bps or above;
操作系统要求 Operating System Requirement	Windows 7/CENTOS 7 及以上 Windows 7/CENTOS 7 or above
数据库要求 Database Requirement	PostgreSQL9.6 及以上; MySQL5.5 及以上; Oracle 11g 及以上; (上述三种任选其一) PostgreSQL9.6 or higher versions MySQL5.5 or higher versions Oracle 11g or higher versions (anyone of the three options above)

注: 上述要求均为最低要求

Note: The requirements above are minimum requirements.

*****附页完/End of Additional Page*****

