



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
GB20PTB00027

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

Thrane & Thrane A/S

地址/Address

Lundtoftegaardsvej 93D, 2800 Kgs. Lyngby Denmark

产品名称/Product

国际海事卫星船舶地面站-C站  
INMARSAT-C SES

附加标志/Notations

无/Nil.

认可标准/Approval Standard

1. SOLAS 74 as amended, Regulation IV/14, IV/10, X/3
2. IMO Res. MSC. 36(63)-(1994 HSC code) 14 ADOPTION OF AMENDMENTS TO THE CODE OF SAFETY FOR DYNAMICALLY SUPPORTED CRAFT
3. IMO Res. MSC. 97(73)-(2000 HSC code) 14 ADOPTION OF THE INTERNATIONAL CODE OF SAFETY FOR HIGH-SPEED CRAFT, 2000 (2000 HSC CODE)
4. IMO A. 570(14) "Type Approval of Ship Earth Stations"
5. IMO A. 664(16) "Performance Standards for Enhanced Group Call Equipment"
6. IMO 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"
7. IMO A. 807(19) "Performance Standards for Inmarsat-C Ship Earth Stations Capable of Transmitting and Receiving Direct-Printing Communications"
8. IMO MSC. 68(68) Annex 4 "Amendments to Resolution A. 807(19) - Performance Standards for Inmarsat-C Ship Earth Stations Capable of Transmitting and Receiving Direct-Printing Communications"
9. IMO MSC. 431(98) "Amendments to the Revised Performance Standards for Enhanced Group Call (EGC) Equipment (RESOLUTION MSC. 306(87))"
10. IMO MSC. 302(87) "Adoption of performance standards for Bridge Alert Management"
11. IMO MSC. 306(87) "Revised Performance Standards for Enhanced Group Call (EGC) Equipment"
12. IMO MSC/Circ. 862 Clarification of certain requirements in IMO performance standards for GMDSS equipment
13. IMO COMSAR Circ. 32 HARMONIZATION OF GMDSS REQUIREMENTS FOR RADIO INSTALLATIONS ON BOARD SOLAS SHIPS
14. IEC 60945 (2002) Incl. IEC 60945 Corr. 1 (2008) "Maritime Navigation and Radiocommunication

证书有效期至/ This Certificate is valid until 2024年09月23日/ Sep. 23,2024

发证机构/ Issued by 中国船级社哥本哈根办事处  
CCS Copenhagen Office

签发日期/ Date 2020年09月23日  
Sep. 23,2020

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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:P020-30631644

Equipment and Systems – General Requirements – Methods of Testing and Required Test Results”

15. MSC.147(77) Adoption of the revised performance standards for a ship security alert system

16. MSC.263(84) REVISED PERFORMANCE STANDARDS AND FUNCTIONAL REQUIREMENTS FOR THE LONG-RANGE IDENTIFICATION AND TRACKING OF SHIPS

17. IEC 61097-4 (2012) incl. 61097-4 (2012) +A1(2016) +A2 (2019) Global maritime distress and safety system (GMDSS) – Part 4: Inmarsat-C ship earth station and Inmarsat enhanced group call (EGC) equipment – Operational and performance requirements, methods of testing and required test results

18. IEC 61162-1 (2016) Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 1: Single talker and multiple listeners

19. IEC62923-1:2018 Maritime navigation and radiocommunication equipment and systems – Bridge alert management – Part 1: Operational and performance requirements, methods of testing and required test results

20. IEC62923-2:2018 Maritime navigation and radiocommunication equipment and systems – Bridge alert management – Part 2: Alert and cluster identifiers and other additional features

## 用于/Intended for

船舶与海上设施/Ships and Offshore Installations

## 产品明细/Product Description

国际海事卫星船舶地面站-C站/INMARSAT-C SES (M0001)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	SAILOR 6110, SAILOR 6120, SAILOR 6130	
INMARSAT 型式认可号/INMARSAT Type Approval No.	4TT094, 4TT095, 4TT096	
发射频率/Tx Frequency	(TX) 1626.5 – 1646.5 MHz	MHz
接收频率/Rx Frequency	(RX) 1525 – 1545 MHz	MHz
电源/Power Source	DC 9V – 32V	
系统组成/System Component	见附页/See additional page	

## 批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP20PPP02269

## 产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : 4TT094  
试验报告日期/ Test Report Date : 2010-11-23

试验报告编号/ Test Report No. : 4TT095  
试验报告日期/ Test Report Date : 2010-11-23

试验报告编号/ Test Report No. : E10178.00  
试验报告日期/ Test Report Date : 2011-02-17

试验报告编号/ Test Report No. : 4TT096  
试验报告日期/ Test Report Date : 2011-01-07

试验报告编号/ Test Report No. : 387406  
试验报告日期/ Test Report Date : 2019-11-26

试验报告编号/ Test Report No. : 99\_167238\_B  
试验报告日期/ Test Report Date : 2019-11-12

## 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.

本证书由原型式认可证书 (No. GB18T00034) 换新并替代原证书。

This certificate is renewed from and supersedes the previous Type Approval Certificate No. GB18T00034.

中国船级社哥德堡办事处

CCS Gothenburg Office

注: 本证书含有附页, 共1页

Note: The certificate is attached with additional 1 page(s)

**Major Components List:**

Category	Name of components	type
Basic installation SAILOR 6110 GMDSS	Mini-C GMDSS terminal	TT-3027C
	Message Terminal	TT-6006 and TT6018A
	Keyboard	TT-6001
	Printer	TT-1252/TT3608
Basic installation SAILOR 6120 SSA	Mini-C SSA terminal	TT-3027
	Terminal Control Unit	TT-6194
Basic installation SAILOR 6130 LRIT	Mini-C LRIT terminal	TT-3027
Accessories	Alarm Panel Mini-C	TT-6101
	Multible Alarm Panel	TT-6103
	Power supply and charger*	TT-6081 SAILOR N163S (AC/DC)
	Ethernet Switch	TT-6197
	SSA kit	TT-6100-913
	SSA US kit	TT-6100-916
	SSA Alert Button	TT-6100-911
	SSA Test Button	TT-6100-912

**Note:**

The SAILOR 6110, and SAILOR 6120 can also be used to wirelessly exchange LRIT signals which meet with IMO Circ. 1307

\*All wheelmarked and IEC60945 approved power supply and changer can be used.