



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
GB19PTB00008

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

Norsk Analyse AS

地址/Address

Wirgenesvei 10,3157 Barkaker Norway

产品名称/Product

废气连续排放测量系统
Continuous Emission Measurement System
船用监测报警系统
Marine Monitoring and Alarm System

认可标准/Approval Standard

1. IMO决议 MEPC. 259 (68) 《2015年废气滤清系统指南》
IMO Resolution MEPC.259(68) 2015 Guidelines for Exhaust Gas Cleaning Systems

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 2023年10月09日/ Oct. 09,2023

发证机构 中国船级社哥德堡办事处 签发日期 2019年10月09日
Issued by CCS Gothenburg Office Date Oct. 09,2019

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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:P019-137903

产品明细/Product Description

船用监测报警系统/Marine Monitoring and Alarm System (M001)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	ShipCEMS, See 'Remarks' for details	
系统组成/System Component	Analyser Cabinet + Sample Conditioning Cabinet + Measuring Probe + Calibration Gas Cylinder	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP18A02014

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : DANAK-19/13168

试验报告日期/ Test Report Date : 2013-06-21

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

按规范只认可不进行产品检验的产品/The product approved only in term of the rules:

认可后的产品检验由制造厂按本社批准的产品检验计划进行检验, 经检验合格后由制造厂签发合格证明, 并连同该产品的本社认可证书复印件一并交付用户, 制造厂对产品符合公约、法规、本社规范和本社认可的标准规定负责。After approval, product inspection should be carried out by the Manufacturer in accordance with the product inspection scheme approved by the Society. Upon satisfactory inspection, and the Quality Certificate issued by the Manufacturer should be provided to the purchaser together with the copy of the approval certificate issued by the Society. The manufacturer should take responsibility for the product being in compliance with the convention, statutory regulation, the Society rules and the standard accepted by the Society.

**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. Norsk Analyse AS 总部位于挪威Barkaker, 本证书产品由Norsk Analyse AS瑞典工厂生产制造。
Norsk Analyse AS's Headquarters is located in Barkaker Norway, above products are manufactured by Norsk Analyse AS Sweden Factory.

制造厂及地址/Manufacturer and Address:

Norsk Analyse AB, Nyangsgatan 5, 66434, Grums, Sweden

2. 产品描述/Product description:

The ShipCEMS system is an emission monitoring system that monitors exhaust emissions from Ships and Offshore Installations. The system is intended for use to verify SO_x emissions from vessels with Exhaust Gas Cleaning Systems installed to meet the requirements of the Revised MARPOL Annex VI Regulation 14 under the guidance of MEPC 259(68). The system analyzes exhaust gas species including Sulphur Dioxide (SO₂), Carbon Dioxide (CO₂) and provides mass totals of these gases using the calculations contained within the NO_x Technical Code (2008).

3. ShipCEMS参数/ShipCEMS Rating:

Power Supply: 230 VA, 50/60 Hz.

Enclosure Rating: IP 44

Ambient Temperature Range: 0-55° C

Primary gases: SO₂, CO₂

Measurement ranges:

- SO₂: 0-50 ppm (min), 0-200 ppm (normal), 0-1000 ppm (max)
- CO₂: 0-5 mol% (min), 0-10 mol% (normal), 0-15 mol% (max)

Recommended calibration gas:

- 40ppm Or 160ppm (80% of F.S) SO₂
- 8 mol% CO₂
- Rest Nitrogen N₂
- Cylinder size: 10 litre (typical)

4. 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.

中国船级社哥德堡办事处
CCS Gothenburg Office

