



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR SYSTEMS AND EQUIPMENT WITH CYBER RESILIENCE

Certificate No. TA24340M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 10, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society's Rules.

This certificate is issued to

Applicant:	Kongsberg Maritime AS
Place of Applicant:	Bekkajordet 8A, 3189 Horten, Norway
Manufacturer:	See attached sheet(s)
Product description:	Monitoring and control system
Model:	K-Chief + K-Safe
Approval No.:	24CY001
Valid until:	30 June 2029

The details are described in the attached sheet(s).

Issued at Tokyo on 1 July 2024.


S. Oishi
General Manager
Machinery Department



Note: The applicant, if desired, is requested to apply to the Society for renewal prior to the expiration date.

Systems and Equipment with Improved Cyber Resilience:

1. Rules and standards:

- The product is satisfied with requirement of Chapter 4, Part X of the Rules for the Survey and Construction of Steel Ships, as amended by IACS UR E27 Rev.1.

2. Limitation:

- The product is not capable of communicating to untrusted networks in accordance with requirement of 4.4.3, Part X of the Rules for the Survey and Construction of Steel Ships, as amended by IACS UR E27 Rev.1.
- Major changes of the type approved system affecting future deliveries are to be informed to the Society. If the changes are considered to affect functionality for which rule requirements apply, a new functional type test may be required, and the certificate may have to be renewed to identify the new version.
- Minor changes of the type approved system not affecting functionality for which rule requirements apply are to be documented and submitted.
- For each vessel, Computer-based system asset inventory, Topology diagrams and Test reports are to be submitted for approval or reference in accordance with Table X2.3, Part X of the Rules for the Survey and Construction of Steel Ships.

- To be continued -

3. Components:

Category	Components
Operator Stations	MC340
	MC360
Operator Control Panels	COP-05 BU-AUT Panel
	COP05 ALC Stand Alone
	Tracker Ball Panel (TBP)
	Panel ALC
	Panel Input Mk3 COP 05
Earth Failure Indicator	EFI-16
Media Converter	RMC-ST
Controller	RCU 502i
	RCU 601
	RCU 602
IO Units	RMP420
	RMP420S
	RDIOR420
	RDIO420S
	RMP422i
	RMP422Si
	RMP201-8
	RSER200-4
	RHUB200-5
Distributed Processing Units (DPU)	Remote Analog input Module - RAi-16xe
	Remote Digital output Module - RDo-16xe
	Remote Digital input Module - RDi-32xe
	Remote Digital input Module - RDi-32Axe
	Remote Analog output Module - RAo-8xe
	Remote Digital I/O Module - RIO-C2xe
	PSS Module
LAN to CAN module	L2C
Network component	RTL8153B-USB3.0/3.1/3.2 to 4x Gb Ethernet
Extension Alarm and Watch Call Units	WCC 600

- To be continued -

4. Documentation and Test Reports:

- Asset Inventory (Doc. No. 110-0066104 Rev. C, dated 07.05.2024)
- Topology (Doc. No. 110-0066093 Rev. B, dated 06.05.2024)
- Security Capabilities (Doc. No. 110-0066099 Rev. B, dated 29.04.2024)
- IACS E27 Test Procedure for K-Chief & K-Safe (Doc. No. 110-0066078 Rev. C, dated 24.05.2024)
- Guideline for Secure Development Lifecycle (Doc. No. KM-GUI-0118 Rev. A, dated 3/21/2024)
- Cyber Security information for K-Chief & K-Safe
- Configuration Management Procedure (Doc. No. KM-PRO-0120 Rev. A, dated 2/13/2024)
- Guidelines for service on AIM systems (Doc. No. KM-GUI-9504 Rev. 3, dated 07.04.2013)
- Change Management (Doc. No. Proc-0080 Rev. A, dated 2024/01/03)
- Guidelines for backup on AIM system (Doc. No. KM-GUI-9505 Rev. D, dated 2019/09/18)
- AIM Revision History (Doc. No. 110-0001444 Rev. B, dated 13.02.2024)
- Backup Procedure (Doc. No. 110-0068347 Rev. A)

5. Manufacturer & Place of Manufacturing:

Manufacturer	Place of Manufacturing
Kongsberg Maritime AS	Bekkajordet 8A, 3189 Horten, Norway
Kongsberg Maritime AS	Kirkegårdsveien 45, 3616 Kongsberg, Norway
Kongsberg Maritime Korea Ltd	9-7, Sandan 3-ro, Jeonggwan-eup, Gijang-gun, Busan, Korea
Kongsberg Maritime China Ltd	136 North Fute Road, China (Shanghai) Pilot Free Trade Zone 200131 Shanghai, China

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