Attestation number: 79320/A0 BV
File number: TCE12_213
Product code: RA-CYBER

This attestation is not valid when presented without the full attached schedule composed of 7 sections

REVIEW ATTESTATION

This attestation is issued to

Kongsberg Maritime AS
Kongsberg - NORWAY

for

CYBERSECURITY REVIEW
Kongsberg K-Thrust 720

Requirements:
NR659 Bureau Veritas Rules on Cyber Security for the Classification of Marine Units
IACS UR E27 Rev.1(Sep 2023) Cyber resilience of on-board systems and equipment

This document is issued to attest that BUREAU VERITAS Marine & Offshore reviewed the technical documentation submitted for the equipment identified above. Details of this review are to be found in the "Schedule of Review" in the subsequent pages of this attestation.

For Bureau Veritas Marine & Offshore,
At BV OSLO, on 24 Jan 2026,
Rune Marstein

This attestation was created electronically and is valid without signature

SCHEDULE OF REVIEW

1. PRODUCT DESCRIPTION :

Kongsberg K-Thrust 720 is described in the certificate 79819/XX BV.

2. DOCUMENTS AND DRAWINGS :

Filename	Reference
110-0053615C K-Thrust 720 CS - Asset Inventory	V1.0
110-0053618A K-Thrust 720 CS - Test Procedure	V2.0
110-0053617B K-Thrust 720 CS - Description of Security Capabilities	V5.0
441551D K-Thrust 720 OPM	V4.2
110-0053616D K-Thrust 720 CS - System Topology	rev D
KM-PROC-0080 Change management_en	rev B
KM-GUI-9504 Guidelines_for_service_on_AIM_systems_en	rev C
KM-GUI-0118 Guideline for Secure Development Lifecycle _SDLC_en	rev A

No departure from the above documents shall be made without the prior consent of the Society. The manufacturer must inform the Society of any modification or changes to these documents and drawings.

3. TEST REPORTS :

'Test Procedure for K-Chief & K-Safe - BV signed' was witnessed by a qualified BV Surveyor on the 16/05/2024:

The following subjects were investigated :
1. Protect against casual or coincidental access by unauthenticated entities
    IEC 62443-3-3/SR 1.1 : Human user identification and authentication
    IEC 62443-3-3/SR 1.3 : Account management
    IEC 62443-3-3/SR 1.4 : Identifier management
    IEC 62443-3-3/SR 1.5 : Authenticator management
    IEC 62443-3-3/SR 1.7 : Strength of password-based authentication
    IEC 62443-3-3/SR 1.10 : Authenticator feedback
2. Protect against casual or coincidental misuse
    IEC 62443-3-3/SR 2.1 : Authorization enforcement
    IEC 62443-3-3/SR 2.3 : Use control for portable and mobile devices
    IEC 62443-3-3/SR 2.4 : Mobile code
    IEC 62443-3-3/SR 2.5 : Session lock
    IEC 62443-3-3/SR 2.8 : Auditable events
    IEC 62443-3-3/SR 2.9 : Audit storage capacity
    IEC 62443-3-3/SR 2.10 : Response to audit processing failures
    IEC 62443-3-3/SR 2.11 : Timestamps
3. Protect the integrity of the CBS against casual or coincidental manipulation
    IEC 62443-3-3/SR 3.1 : Communication integrity
    IEC 62443-3-3/SR 3.1 RE 1 : Communication integrity
    IEC 62443-3-3/SR 3.2 : Malicious code protection
    IEC 62443-3-3/SR 3.3 : Security functionality verification
    IEC 62443-3-3/SR 3.6 : Deterministic output
4. Prevent the unauthorized disclosure of information via eavesdropping or casual exposure
    IEC 62443-3-3/SR 4.1 : Information confidentiality
    IEC 62443-3-3/SR 4.3 : Use of cryptography
5. Monitor the operation of the CBS and respond to incidents
    IEC 62443-3-3/SR 6.1 : Audit log accessibility
6. Ensure that the control system operates reliably under normal production conditions
    IEC 62443-3-3/SR 7.1 : Denial of service protection
    IEC 62443-3-3/SR 7.2 : Resource management
    IEC 62443-3-3/SR 7.3 : System backup
    IEC 62443-3-3/SR 7.4 : System recovery and reconstitution
    IEC 62443-3-3/SR 7.5 : Alternative power source
    IEC 62443-3-3/SR 7.6 : Network and security configuration settings
    IEC 62443-3-3/SR 7.7 : Least Functionality

4. APPLICATION / LIMITATION :

4.1 - This attestation is an intermediate document and does not constitute by itself a BV Type Approval Certificate. This attestation is limited to cyber resilience of product described in 1. as per UR E27 Rev. 1 dated Sept.2023.

4.2 - This attestation is only valid when attached to the valid Type Approval Certificate 79819/XX BV.

4.3 - This attestation has been issued based on the review of documentation provided for the Type Approval Certificate 79819/A0 BV. It is manufacturer's responsibility to inform the Society of any modification or changes which could impact the validity of this attestation.

4.4 - Only Hardware and Firmware / Software successfully tested together in compliance with the Rules as referred to in page one, according to the declaration of the manufacturer are covered by this attestation.

4.5 - The installation shall comply with the Manufacturer's recommendation described in the above-referenced documentation.

4.6 - It is manufacturer's responsibility to inform the Society of any modification or changes which could impact the validity of this attestation.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - For information, **Kongsberg Maritime AS**, has declared to Bureau Veritas the following production sites:

Kongsberg Maritime Ship Systems AS **Bekkajordet 8a,** **P.O. Box 1009** **N-3194** **Horten** **NORWAY**	**Kongsberg Maritime AS** **POB 483** **Kirkegårdsveien 45** **3601 Kongsberg** **NORWAY**	**Kongsberg Maritime China Ltd.** **136 North Fute Road , China (Shanghai)** **China (Shanghai) Pilot Free Trade Zone** **Shanghai** **CHINA**
Kongsberg Maritime INC **New Orleans** **LA 70087 Louisiana** **USA** **70087 Louisiana** **UNITED STATES OF AMERICA**	**Kongsberg Maritime Korea (KMK)** **9-7, Sandan 3-ro,** **Jeonggwan-eup,** **Gijang-gun** **BUSAN** **KOREA (REPUBLIC OF)**	**Kongsberg Maritime PTE LTD** **81 TOH GUAN ROAD EAST** **#04-01, SECOM CENTRE** **SINGAPORE** **SINGAPORE**
	Kongsberg Maritime AS - Automation **& Control - Longva** **Longvafjordvegen 379** **Postboks 1522** **N-6293 LONGVA** **NORWAY**	

6. MARKING OF PRODUCT :

N/A.

7. OTHERS :

7.1 - It is **Kongsberg Maritime AS** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF ATTESTATION ***