Attestation number: 84426/A0 BV

File number: TCG05_243

Product code: RA-CYBER-NA

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

REVIEW ATTESTATION

This attestation is issued to

Jiangsu Highland Integration Technology Co., LTD.

NANTONG - CHINA

for

NON-APPLICABILITY OF IACS UR E27 (For Computer-Based Systems of Category I & II only, as defined by UR E22)

RUDDER ANGLE INDICATION SYSTEM, Model HLD RAIS100

Requirements:
NR659 Bureau Veritas Rules on cyber security for the classification of marine units.
IACS UR E26 Rev.1 Nov 2023 Cyber resilience of ships section 6.4.

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 SHANGHAI, on 04 Jun 2026,
Jennifer Zhang

This attestation was created electronically and is valid without signature

SCHEDULE OF REVIEW

1. PRODUCT DESCRIPTION :

1.1 - The RUDDER ANGLE INDICATION SYSTEM, Model HLD-RAIS100, is a fully digital rudder angle indication system that converts rudder angle signals into IEC61162 sentences for transmission to multiple display units across the vessel (bridge, steering gear room, engine control room, and ship wings), providing crew with real-time rudder position and direction data while complying with IMO regulations. The system comprises seven functional components: a rudder angle transmitter unit, connection distribution unit, three types of indication units (three-sided, wall-mounted, and panel-mounted), an alarm display unit, and a dimming unit.

2. DOCUMENTS AND DRAWINGS :

Filename	Reference
HLD-RAIS100 System topology	V1.1
HLD-RAIS100 Inventory list	V1.1
Installation Manual	V2.0
Operation Manual	V2.0
Rudder Angle Indicator System Risk assessment report	V1.1
HLD-RAIS100 Low Risk ExemptionAssessment	V1.1

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 :

N/A.

4. APPLICATION / LIMITATION :

4.1 - This attestation does not constitute by itself a BV type approval certificate. This attestation is limited to cyber resilience as per IACS UR E26 Rev.1 Nov 2023 Cyber resilience of ships, section 6.4.
4.2 - This attestation only covers subject product installed or integrated under the strict conditions described in the above-mentioned documents.
4.3 - This attestation is not relevant if the Computer Based System covered by this attestation serves ship functions of category III, as defined by UR E22.
4.4 - This attestation remains valid as long as:

- The system under consideration is isolated (i.e, have no IP-network connections to other systems or networks)
- The system under consideration has no accessible physical interface ports (unused interfaces are logically disabled and it is not be possible to connect unauthorised devices to the system)
- The system under consideration is located in areas to which physical access is controlled
- The system under consideration is not an integrated control system serving multiple ship functions as specified in the scope of UR 26 applicability.

Failure to comply with one or more of these criteria automatically renders this attestation invalid.

5. PRODUCTION SURVEY REQUIREMENTS :

N/A.

6. MARKING OF PRODUCT :

N/A.

7. OTHERS :

7.1 - It is **Jiangsu Highland Integration Technology Co., LTD.** 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 *****