COPY

NIPPON KAIJI KYOKAI

CERTIFICATE OF APPROVAL FOR FIRMS ENGAGED IN PERFORMANCE TESTS OF VOYAGE DATA RECORDERS

Certificate No. : **24EQ005VT**
Approval No. : **VT162**

THIS IS TO CERTIFY that

Mackay Marine, Edison

165 Fieldcrest Ave., Edison, NJ 08837, U.S.A.

is approved as a firm engaged in annual performance tests of the voyage data recorders under the Society's Rules for Approval of Manufacturers and Service Suppliers incorporating IACS UR Z17, as amended.

This approval is valid until **19 December 2028**, subject to periodical assessment and the validity of the equipment manufactures' approval, and in association with the attachment to this certificate on which the applicable items to this approval are listed.

This certificate was issued at Tokyo on **30 January 2024**.

See the conditions for approval on the reverse.

NIPPON KAIJI KYOKAI

Y. Takao
General Manager
Material and Equipment Dept.

ClassNK

Conditions for Approval:

1. The scope of performance test of this firm is as follows;
   - VDR/S-VDR regarding SOLAS Chapter V, Regulation 20
   For the applicable items to this approval, refer to the attachment.

2. The service has been properly conducted and reported to the Society's surveyor in accordance with the requirements of the rules and the relevant regulations.

3. Where there is any alteration to the service approved by this certificate, the firm should notify immediately to the Society.

This is to certify that the firm has been periodically or occasionally assessed in accordance with the regulations of Chapter 2, Part 1 of the Rules for Approval of Manufacturers and Service Suppliers.

Due range of the periodical assessment: between 20 December 2025 and 19 December 2026

Periodical Assessment

Date _____

Signature _____

Surveyor to NIPPON KAIJI KYOKAI

Occasional Assessment

Date _____

Signature _____

Surveyor to NIPPON KAIJI KYOKAI

Attachment to the certificate No. 24EQ005VT

Manufacturers / Models

Japan Radio Co., Ltd.	JCY-1000, JCY-1700, JCY-1700S, JCY-1800, JCY-1850, JCY-1900, JCY-1950
MacGregor Germany GmbH & Co. KG	MER-VDR, MER- SVDR, VDR G4, VDR G4e
Northrop Grumman Sperry Marine	VoyageMaster III/IV (VDR/S-VDR)
Furuno Electric Co., Ltd.	VR-3000, VR-5000, VR-7000
Samsung Heavy Industries Co., Ltd.	SVDR-3000, SVDR-5000
Netwave Systems B.V.	NW-4000 VDR, NW-4000 SVDR, NW-6000 VDR, NW-6000 SVDR
Danelec Marine A/S	DM200, DM300, DM400, DM500
Beijing Highlander Digital Technology Co., Ltd.	HLD-A2/S, HLD-B2/S2
Rutter Technologies Inc.	VDR-100G2, VDR-100G3, VDR-100G3S
Kelvin Hughes Limited	MDP VDR/SVDR