



Certificate Number **19-HG3697317-B**
Effective Date 08-July-2019
Expiry Date 07-July-2022
ABS Port Office Hamburg, Germany
Specialist's Website www.maresystems.com

CERTIFICATE OF Recognized External Specialist

This is to certify that

Maresystems GMBH

located at

Kupferhammer 7, 22399 Hamburg, Germany

having been audited by ABS and having given a satisfactory practical demonstration of the service listed below, is recognized by ABS as a Service Provider to provide services which ABS Surveyors may rely on to make decisions affecting classification or statutory surveys.

Voyage Data Recorders and Simplified VDRs Maintenance

It is the responsibility of the Service Provider to employ, train and qualify persons in the service provided. If the service requires approval from manufacturers, the service provider is responsible to maintain contact with the manufacturer and maintain any service manuals up to date. Where required by the category of service, specialists shall provide valid evidence that it is authorized or licensed by the equipment manufacturer to service the particular makes and models of equipment for which approval is sought. If approval from the manufacturer is not attained, a surveyor must be present at time of survey to continue work. Alternatively, current written instructions from the flag state are to be obtained to continue work without the surveyor present. Service technicians must present photo identification, evidence of qualification and authorizations from manufacturers, as applicable, at the time of service.

The ABS office issuing this certificate is to be kept updated with changes to the management of the company, its employees, equipment and models on the authorization list and any changes made.

See enclosed Appendix for scope of approval, authorized personnel, manufacturer authorizations, and subcontractors, etc.


for Razvan Ionut Galav, Surveyor



APPENDIX TO ABS EXTERNAL SPECIALIST CERTIFICATION NO. 19-HG3697317-B

Scope of Approval, Limitations or Restrictions

Voyage Data Recorders and Simplified VDRs Maintenance

Authorized Personnel

Mr. Johannes Stange

Mr. Michael Steinbach

Quality Manager

Mr. Michael Steinbach

Manufacturer's Authorizations

VDR:

Wärtsilä SAM Electronics - VDR4300; VDR4340; VDR4350; VDR4370;

MacGregor Germany GmbH & Co.KG (Interschalt) - MER; MER-VDR; VDR-G4; VDR-G4e;

Beijing Highlander - HLD-A; HLD-S; HLD-S2; HLD-A1; HLD-A2; HLD-B2; VDR-600; SVDR-600

Hyundai Heavy Industries - HiVDR, HiVDR-E

S-VDR:

Wärtsilä SAM Electronics - S-VDR4330

MacGregor Germany GmbH & Co.KG (Interschalt) - MER-SVDR, MER-SVDR-C

Samsung Heavy Industries - SVDR; SVDR-3000; SVDR-N; SVDR-PRO

Subcontractor and Scope of Subcontracting Work

N/A

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of the American Bureau of Shipping and is issued solely for the use of the Bureau. This certificate is a representation only that the Company has been assessed in accordance with ABS procedures and found capable of providing the listed service as limited by the associated recognition letter. This certificate is governed by the Terms and Conditions on the above page hereof and by the Rules, Guides or Standards of the American Bureau of Shipping, who shall remain the sole judge thereof.