



EC (MODULE D) CERTIFICATE OF CONFORMITY

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), designated as a "notified body" under the terms of the Merchant Shipping (Marine Equipment) Regulations 2016 (S.I. 2016 No. 1025) did undertake an assessment of the subject manufacturer's Quality System as per requirements of Annex II Conformity to type based on quality assurance of production process (Module D) of Marine Equipment Directive (MED) 2014/90/EU and Commission Implementing Regulation (EU) 2018/773 indicating design, construction and performance requirements and testing standards for marine equipment and was found to conform with the requirements for the Product Types below.


Manufacturer (Applicant)	Northrop Grumman Sperry Marine BV	
Address	118 Burlington Road New Malden Surrey, KT3 4NR United Kingdom (UK)	
Reference Regulation Item	Regulation (EU) 2018/773	
	MED/4.30	Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS)
(No & designation)	MED/4.33	Track control system (working at ship's speed from minimum manoeuvring speed up to 30 knots)
	MED/4.34	Radar equipment CAT 1
	MED/4.35	Radar equipment CAT 2
	MED/4.37	Radar equipment for high-speed craft applications (CAT 1H, CAT 2H)
	MED/4.38	Radar equipment approved with a chart option, namely; (a) CAT 1C, (b) CAT 2C (c) CAT 1HC for HSC (d) CAT 2HC for HSC

Approval is subject to continued maintenance of the requirements of the above mentioned Directives and to all products continuing to comply with the standards and conditions of EC Type Examination Certificates issued by Lloyd's Register Verification or other Notified Body when they are of the above Designation(s).

Approval is further subject to continued maintenance of the certified quality management system in accordance with the requirements of ABS certificate number 32652 or an equivalent replacement thereof.

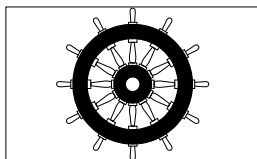
Authorisation is hereby given to the manufacturer to use the LRV Notified Body Registration Number 0038 in accordance with the requirements of the specified Directives in relation to the described products.

This certificate remains valid unless cancelled or revoked, provided that products manufactured under this Certificate remain satisfactory in service and the above quality management system continues to be approved.

First issue	1 January 2019		
Date of issue	13 June 2019	Expiry date	31 December 2021
Certificate No.	MED 1800031/M5	Signed	
Sheet No	1 of 2	Name	J. Deboer For and on behalf of Lloyd's Register Verification LRV EC Distinguishing No. 0038

Note:

This certificate is issued under the authority of the MCA. No product shall be manufactured under this Certificate unless a valid EC Type Examination Certificate (Module B) is held on that product's Technical File. The manufacturer shall advise the Notified Body of all proposed modifications or changes to a product for which an EC Type Examination Certificate (Module B) has been issued, and of proposed changes of manufacturing location or process, and shall retain copy of their written authorisation or Certification of such changes.



0038/yyyy

Subject to the Manufacturer's compliance with the foregoing, and those conditions of the Directive, the Manufacturer or his Authorised Representative is allowed to affix the 'Mark of Conformity' to products of the types shown above.

yyyy = The year in which the mark is affixed.



Lloyd's Register

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Page 2 of 2
Document number MED 1800031/M5
Issue number 1

Date 13 June 2019	Quote this reference on all future communications UKITSO/TA/QA-MED/JD
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EC QUALITY SYSTEM (MODULE D) CERTIFICATE No. MED 1800031/M5

The manufacturer is allowed to affix the US Coast Guard approval number (as detailed below or subsequent revisions thereof) as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004 and amended by Decision No.1/2018 dated February 18th, 2019

This Certificate is an amendment of Certificate No. MED 1800031/M4.

Places of Production

Northrop Grumman Sperry Marine BV
118 Burlington Road
New Malden
Surrey, KT3 4NR
United Kingdom

Module B No's	Regulation Item number	USCG Approval Number	Date of issue / revision	Notified body
BABT-MED000051 Issue 09	MED/4.30	165.123/EC0168/BABT-MED000051 Issue 09/EC0038 165.124/EC0168/BABT-MED000051 Issue 09/EC0038	21/05/2019	EC0168
MED 1900003/M2	MED/4.34	165.115/EC0038/MED 1900003/M2	12/06/2019	EC0038
MED 1900003/M2	MED/4.37	165.216/EC0038/MED 1900003/M2 165.217/EC0038/MED 1900003/M2	12/06/2019	EC0038
MED 1900003/M2	MED/4.38(a)	NOT ELIGIBLE	12/06/2019	EC0038
MED 1900003/M2	MED/4.38(c)	NOT ELIGIBLE	12/06/2019	EC0038
MED 1900004/M2	MED/4.35	165.116/EC0038/ MED 1900004/M2	12/06/2019	EC0038
MED 1900004/M2	MED/4.37	165.216/EC0038/MED 1900004/M2 165.217/EC0038/MED 1900004/M2	12/06/2019	EC0038
MED 1900004/M2	MED/4.38(b)	NOT ELIGIBLE	12/06/2019	EC0038
MED 1900004/M2	MED/4.38 (d)	NOT ELIGIBLE	12/06/2019	EC0038
MED 1900006/M2	MED/4.30	165.123/EC0038/MED 1900006/M2 165.124/EC0038/MED 1900006/M2	12/06/2019	EC0038
MED 1900007/M2	MED/4.33	165.112/EC0038/ MED 1900007/M2	12/06/2019	EC0038
MED 1900008/M2	MED/4.34	165.115/EC0038/ MED 1900008/M2	12/06/2019	EC0038
MED 1900008/M2	MED/4.37	165.216/EC0038/MED 1900008/M2 165.217/EC0038/MED 1900008/M2	12/06/2019	EC0038
MED 1900008/M2	MED/4.38(a)	NOT ELIGIBLE	12/06/2019	EC0038
MED 1900008/M2	MED/4.38(c)	NOT ELIGIBLE	12/06/2019	EC0038
MED 1900009/M2	MED/4.35	165.116/EC0038/ MED 1900009/M2	12/06/2019	EC0038
MED 1900009/M2	MED/4.37	165.216/EC0038/MED 1900009/M2 165.217/EC0038/MED 1900009/M2	12/06/2019	EC0038
MED 1900009/M2	MED/4.38(b)	NOT ELIGIBLE	12/06/2019	EC0038
MED 1900009/M2	MED/4.38 (d)	NOT ELIGIBLE	12/06/2019	EC0038
MED 1900010/M2	MED/4.34	165.115/EC0038/MED 1900010/M2	12/06/2019	EC0038
MED 1900010/M2	MED/4.38(a)	NOT ELIGIBLE	12/06/2019	EC0038
MED 1900011/M2	MED/4.30	165.123/EC0038/MED 1900011/M2 165.124/EC0038/MED 1900011/M2	12/06/2019	EC0038
MED 1900012/M2	MED/4.33	165.112/EC0038/MED 1900012/M2	12/06/2019	EC0038