DNV·GL

Certificate No: MEDB00002AU

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

### This is to certify:

#### That the Radar equipment

with type designation(s) FAR-2318, FAR-2328, FAR-2328W, FAR-2338S, FAR-2338SW, FAR-2338S-NXT and FAR-2218, FAR-2218-BB, FAR-2228, FAR-2228-BB, FAR-2238S, FAR-2238S-BB, FAR-2238S-NXT, FAR-2238S-NXT-BB

## Issued to Furuno Electric Co., Ltd. Nishinomiya Hyogo Pref, Japan

is found to comply with the requirements in the following Regulations/Standards: Regulation (EU) 2017/306, item Nos. MED/4.34/4.35/4.36. SOLAS 74 as amended, Regulations V/18 & V/19, IMO Res. A.278(VIII), IMO Res. A.694(17), IMO Res. MSC.191(79), IMO Res. MSC.192(79), IMO Res. MSC.302(87), ITU-R M.1177-4 (04/11)

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-03-13**. Issued at **Høvik** on **2018-03-14** 

DNV GL local station: **Kobe** 

Approval Engineer: Olaf Gundersrud



Notified Body No.: 0575 for DNV GL AS

Roald Vårheim Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.



This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Revision: 2017-07

www.dnvgl.com

### **Product description**

The Radars FAR-2318, FAR-2328, FAR-2328W, FAR-2338S, FAR-2338SW, FAR-2338S-NXT and FAR-2218, FAR-2218-BB, FAR-2228, FAR-2228-BB, FAR-2238S, FAR-2238S-BB, FAR-2238S-NXT, FAR-2238S-NXT-BB consist of the following units:

Unit	Location
Processor unit	Protected
Monitor (display) unit	Protected
Control unit (operation panel)	Protected
Data interface	Protected
Up-mast transceiver unit -	Exposed
- or down-mast transceiver unit	Protected
Antenna unit	Exposed

For details, see Appendix.

### Application/Limitation

- The radar types FAR-23x8(-nn) is found to be in compliance with RADAR for ships; CAT 1 and CAT 2 and CAT 3 (dependent of monitor installed, ref. Appendix).
- The radar types FAR-22x8(-nn) is found to be in compliance with RADAR for ships; CAT 2 and CAT 3 (dependent of monitor installed, ref. Appendix).
- The FAR-radar supports a DVI-I port and Ethernet port being in compliance with IEC61996-1 for interconnection with the VDR.
- The FAR-radar shall be installed and tested onboard in accordance with the pertinent Installation Manual (ref. appendix)

### **Type Examination documentation**

See Appendix.

#### **Tests carried out**

- IEC 62388(2013)
- IEC 61162-1(2010 and 2016)
- IEC 61162-2(1998)
- IEC 61162-450(2011)
- IEC 62288(2014)
- IEC 60945(2002)

### Marking of product

The manufacturer and Type Designation to be applied to the equipment in a clearly visible location and in addition the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.

## USCG Approval for ARPA/ATA/EPA (CAT 1/CAT 2/CAT 3)

The product has been assigned a **U.S. Coast Guard Module B number**, USCG approvals 165.115/EC0575, 165.116/EC0575, 165.117/EC0575 as applicable, to note type approval to Module B only as it pertains to obtaining US Coast Guard approval as allowed by the "Agreement between the United States of America and the EEA/EFTA states on the mutual recognition of certificates of conformity for marine equipment" signed 17 October 2005.

The RADAR transceiver is not covered by the agreement and must have separate U.S. certification for installation on U.S. flagged vessels.

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## **APPENDIX**

#### **Product description**

The CAT 1 radars FAR-2318, FAR-2328, FAR-2328W, FAR-2338S, FAR-2338SW, FAR-2338S-NXT and the CAT 2/3 radars FAR-2218(-BB), FAR-2228(-BB), FAR-2238S(-BB), FAR-2238-NXT(-BB) comprise combinations of the following components:

Unit	Model Name	Remark		
Processor Unit	RPU-025			
Data Interfaces	03P9648	IEC61162-2/		
(embedded)	03P9652		IEC61162-1	
	Ethernet 100 Base-T	IEC61162-450		
	VDR-connection	LAN2 port		
	HMC-200CE-A LAN signal converter			option
Monitor Unit for CAT 1/2/3	MU-231 or MU-270W or HD26T21 MMD-MAx-F HD26T22 FUD-MAx-F HD27T22 FUD-MAx-F HD32T22 FUD-MAx-F HD55T22 FUD-XAX-X( JH 23T14 FUD-MA1-A WA460-01-MON-01-x WA270-01-MON-01-x	x=variable letter/number according to manufacturer's type number identification <sup>2)</sup> DVI/VGA connection <sup>3)</sup> DVI connection		
Optional monitor unit for CAT 2/3 Optional monitor unit for CAT 3	HD24T21 MMD-MAx-A HD19T22 FUD-MAx-F JH 19T14 FUD-xA1-x JH 20T17 FUD-xA1-A MU-152 <sup>2)</sup> or			
Radar control units	RCU-014 or RCU-015	<sup>4)</sup> optional		
	model	transceiver	Antenna unit	
X-band transceiver	FAR-2318 FAR-2218(-BB)*	RTR-105	XN12CF-RSB-128 XN20CF-RSB-128 XN24CF-RSB-128	4 ft 6.5 ft *CAT 2/3 8 ft

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## APPENDIX

Product description cont.
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Unit	Model Name	Components		Remark	
	FAR-2328 FAR-2228(-BB)*	RTR-106	XN12CF-RSB-128 XN20CF-RSB-128 XN24CF-RSB-128	*CAT 2/3	
	FAR-2328W	RTR-108	XN20CF-RSB-130 XN24CF-RSB-130		
S-band transceiver	FAR-2338S FAR-2238S(-BB)*	RTR-107	SN36CF-RSB-129	12.5 ft *CAT 2/3	
	FAR-2338SW	RTR-109	SN36CF-RSB-131		
	FAR-2338S-NXT FAR-2238S-NXT(-BB)*	RTR-111	SN36CF-RSB-133	250W – solid state *CAT 2/3	
Performance monitors	PM-32A PM-52A PM-52B <sup>5)</sup>	X-band S-band S-band		<sup>5)</sup> solid state	
LAN switching HUB	HUB-100			Option	
LAN intelligent HUB	HUB-3000			Option	
Junction Box	RJB-001			Option	
Software	03P9377-xx.xx	RPU-025 (main)			
	03P9380-xx.xx	RPU-025 (sub)			

## Type Examination documentation

NPS No.	Document No.	Rev.	Document Title
104	Applica 2010-3421	1	JH 20T17 MMD-DA1-AAAR Technical report
103	Applica 2010-3253		JH 20T17 MMD-DA1-AAAA Technical report
102	LIC 12-17-074		MU-152 IEC62288 -CSD report
101	LIC 12-17-073		MU-152 IEC62288 -test report
100	LIC 12-17-072		MU-152 IEC60945 others -test report
99	LIC 12-17-071		MU-152 IEC60945 test report
98	LIC 12-17-070		MU-152 EMC test report
96	applica 21008	0	HD 24T22 MMD IEC60945 testing
94	VS-TV-060720-04		Vibration test: HD 19T22 MMD-MA1-FHGA-ES-1
90	Applica 20589	0	HD15T21 MMC-M2N-PCAA: EMC & environmental testing
89	DNV 2012-3177	0	HD15T21 MMD-FA1-FHGA: EMC & environmental testing
88	Applica 21009	0	HD26T22 MMD-MA1-FAGP-ES: EMC & environmental testing
87	Applica 21120	0	HD15T22 MMD-MA1-FOGA-ES: Radiated emission & compass
			safe distance
86	Applica 21121	0	HD15T22 MMD-MA1-FHGA-ES: EMC & environmental testing
85	Applica 20588	0	HD19T21 MMC-M2D-MBAA: EMC & environmental testing
83	Applica 21122	0	HD19T22 MMD-MA1-FOGA-ES: EMC radiated emission
82	Applica 21089	0	HD19T22 MMD-MA1 -EMC-FAGP-ES: EMC testing

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## APPENDIX

## Type Examination documentation cont.

81     170421001T     HD19722 MMD-MA1 -EMC-FAGP-ES: EMC & environmetal testing       80     170703002T     HD19722 MMD-MA1 -EMC-FHGA-ES-1: EMC & environmetal testing       79     DNV 2010-3124     2     JH23T14 MMD-MA1 -EMC and environmental testing       77     DOC102116-1     1     JH23T14 MMD-MA1-ABA IEC62288 Conformance test report       76     DOC101909-1R3     Keypad P004511-1 minimum brightness test       75     DOC100829-6     JH23T14-MMD-MA1-OBA Flicker test       71     doc205984-1     IEC62288 HD5ST22 conformance test       70     doc205984-1     IEC62288 HD5ST22 conformance test       70     doc205984-1     IEC62288 EnD5ST22 CMC and environmental testing (2)       8a pplica 200809     1     HD55T22 EMC and environmental testing (2)       8a doc205970-1     IEC62288 flicker test HD32T22       63     doc205970-1     IEC62288 flicker test HD32T22       64     doc206156-1     1     HD 27T22 MMD-MA1-FAGA-Es: IEC62288 and colour calibration       60     Applica 20885     0     EMC and environmental testing of HD 27T22 MEC       75     Applica 21009     0     HD 24721 MMD: MA1-FAGA-Es: IEC62288 and colour calibration <t< th=""><th>NPS No.</th><th>Document No.</th><th>Rev.</th><th>Document Title</th></t<>	NPS No.	Document No.	Rev.	Document Title
Interview     Integration       79     DNV 2010-3124     2     JH23T14 MMD-MA1 -EMC and environmental testing       77     DOC102116-1     1     JH23T14 MMD-MA1-ABA IEC62288 Conformance test report       75     DOC100829-6     JH23T14 MMD-MA1-OBA Flicker test       73     TAA0000051     DNVGL TA-certificate       71     doc205981-1     IEC62288: HD55T22 Conformance test       70     doc2059971-1     IEC62288: HD55T22 Clicker test       69     applica 20869     1     HD55T22 EMC and environmental testing (2)       64     ac205992-1     IEC62288 conformance test report HD32T22       64     doc205992-1     IEC62288 flicker test HD32T22       64     doc206155-1     1     HD 27T22 MMD -IEC62288 FLICKER TEST       63     doc206155-1     1     HD 27T22 MMD -MA1-FAGA-ES: IEC62288 and colour calibration       60     Applica 20941     0     EMC and environmental testing of HD 27T22 MEC       54     doc205967-1     Flicker test report HD24T22     EC62288 iConformance test report 24T22 MMD       54     doc12352-2     2     IEC62288 iConformance test report 24T22 MMD       54	81	170421001T		
77     DOC102116-1     1     JH23T14 MMD-MA1-AABA IEC62288 Conformance test report       76     DOC100829-6     JH23T14-MMD-MA1-OBA Filcker test       73     TAA0000051     DNVGL TA-certificate       74     doc205984-1     IEC62288: HD55T22 conformance test       70     doc205971-1     IEC62288: HD55T22 flicker test       70     doc205971-1     IEC62288: HD55T22 flicker test       71     doc205971-1     IEC62288: HD55T22 flicker test       74     applica 20869     1     HD55T22 LWC and environmental testing (2)       76     moke E16240.01     HD55T22 Vibration test     HD32T22       76     doc205992-1     IEC62288 conformance test report HD32T22       76     doc206155-1     1     HD 27T22 MMD-MA1-FAGA-E5: IEC62288 and colour calibration       76     doc206155-1     1     HD 27T22 MMD-TEC62288 FLICKER TEST       76     doc205967-1     Flicker test report HD24T22       77	80	170703002T		
76     DOC101909-1R3     Keypad P004511-1 minimum brightness test       75     DOC100829-6     JH23T14-MD-MA1-0BA Flicker test       73     TAA0000051     DNVGL TA-certificate       71     doc205984-1     IEC62288: HD55T22 conformance test       70     doc205991-1     IEC62288: HD55T22 ENC and environmental testing (2)       78     paplica 21007     0     HD55T22 ENC and environmental testing (2)       78     paplica 20869     1     HD55T22 ENC and environmental testing (2)       79     applica 20869     1     HD55T22 ENC and environmental testing       76     Nemko E16240.01     HD55T22 Vibration test     6       76     doc205970-1     IEC62288 conformance test report HD32T22       76     doc206156-1     1     HD 27T22 MMD - IEC62288 FLICKER TEST       76     doc205967-1     IEC62288     Conformance test report HD 27T22 MEC       76     doc102352-2     2     IEC62288     Conformance testing       76     doc205967-1     Flicker test report HD24T22     MD       76     doc205958-1     2     IEC62288     Conformance testregort 24T22 MMD  <	79	DNV 2010-3124	2	JH23T14 MMD-MA1 -EMC and environmental testing
75     DOC100829-6     JH23T14-MMD-MA1-OBA Flicker test       73     TAA00000S1     DNVGL TA-certificate       71     doc205984-1     IEC62288: HD55T22 cmformance test       70     doc205971-1     IEC62288: HD55T22 flicker test       68     applica 20869     1     HD55T22 EWC and environmental testing       67     Nemko E16240.01     HD55T22 EWC and environmental testing       67     Nemko E16240.01     HD55T22 EWC and environmental testing       64     doc205970-1     IEC62288 conformance test report HD32T22       63     doc206156-1     1     HD 27T22 MMD - IEC62288 FLICKER TEST       64     doc205970-1     IEC62288 incker test HD32T22       63     doc206155-1     1     HD 27T22 MMD - MA1-FAGA-ES: IEC62288 and colour calibration       60     Applica 20885     0     EMC and environmental testing of HD 27T22 MEC       54     doc205967-1     Flicker test report HD24T22       56     doc102352-2     2     IEC62288 inchormance test report HD26T22 MMD       54     Applica 21009     0     HD 24721 MMD: EMC and environmental testing       50     doc102352-3     IEC60288			1	
73   TAA00000S1   DNVGL TA-certificate     71   doc205984-1   IEC62288: HD55T22 conformance test     70   doc205971-1   IEC62288: HD55T22 ficker test     69   applica 21007   0   HD55T22 EMC and environmental testing (2)     68   applica 20869   1   HD55T22 EMC and environmental testing (2)     67   Nemko E16240.01   HD55T22 EMC and environmental testing (2)     64   doc205992-1   IEC62288 ficker test HD32T22     63   doc206156-1   1   HD 27T22 MMD - IEC62288 FLICKER TEST     62   doc206155-1   1   HD 27T22 MMD-MA1-FAGA-ES: IEC62288 and colour calibration     60   Applica 20941   0   EMC and environmental testing of HD 27T22 MEC     58   doc205967-1   Flicker test report HD24T22   EC62288: Conformance test report 24T22 MMD     54   Applica 21009   0   HD 24T21 MMD: EMC and environmental testing     50   doc205969-1   1   IEC62288 Flicker test report HD24T22 MMD     54   doc102352-3   IEC62288: Conform. test report HD 24T22 MMD     56   doc205969-1   1   IEC62288: Conform. test report HD 24T22 MMD     57   doc20598-1 <t< td=""><td></td><td></td><td></td><td></td></t<>				
71     doc205984-1     IEC62288: HD55T22 conformance test       70     doc205971-1     IEC62288: HD55T22 flicker test       69     applica 2007     0     HD55T22 EMC and environmental testing (2)       68     applica 20869     1     HD55T22 EMC and environmental testing       67     Nemko E16240.01     HD55T22 Vibration test       65     doc205992-1     IEC62288 cnoformance test report HD32T22       64     doc205970-1     IEC62288 flicker test HD32T22       63     doc206155-1     1     HD 27T22 MMD - IEC62288 FlicKER TEST       64     doc206155-1     1     HD 27T22 MMD - IEC62288 ind colour calibration       66     Applica 20855     0     EMC and environmental testing of HD 27T22 MEC       58     doc205967-1     Flicker test report HD24T22       56     doc10352-2     2     IEC62288 inconformance test report 24T22 MMD       54     Applica 21008     0     HD 24T21 MMD: EMC and environmental testing       53     Applica 21008     0     HD 24T21 MMD: EMC and environmental testing       54     doc102352-3     IEC60288 incker test report HD26T22 MMD-MA1-FAGA-ES       5				
70     doc205971-1     IEC62288: HD55T22 flicker test       69     applica 20869     1     HD55T22 EMC and environmental testing       68     applica 20869     1     HD55T22 EMC and environmental testing       67     Nemko E16240.01     HD55T22 Vibration test       65     doc205992-1     IEC62288 conformance test report HD32T22       64     doc206156-1     1     HD 27T22 MMD - IEC62288 FLICKER TEST       62     doc206155-1     1     HD 27T22 MMD - IEC62288 FLICKER TEST       63     doc205967-1     IEC62288 flicker test port HD32T22 MEC       58     doc205967-1     Flicker test report HD24T22       56     doc205967-1     Flicker test report HD24T22       56     doc103252-2     2     IEC62288 iConformance test report 24T22 MMD       54     Applica 21009     0     HD 24T21 MMD iEMC and environmental testing       50     doc205969-1     1     IEC62288 Flicker test report HD26T22 MMD       49     doc205958-1     2     Minimum brightness test of GDCX Rev 5       48     doc103352-3     IEC60945 technical report: JH 20T17 MMD-AA1-AABA       44     2008-33511				
69     applica 21007     0     HD55T22 EMC and environmental testing (2)       68     applica 20869     1     HD55T22 EMC and environmental testing       67     Nemko E16240.01     HD55T22 Vibration test       63     doc205992-1     IEC62288 flicker test HD32T22       64     doc206156-1     1     HD 27T22 MMD - IEC62288 FLICKER TEST       62     doc206155-1     1     HD 27T22 MMD-MA1-FAGA-ES: IEC62288 and colour calibration       60     Applica 20941     0     EMC and environmental testing of HD 27T22 MEC       58     doc20597-1     Flicker test report HD24T22       56     doc102352-2     2     IEC62288 Conformance test report 24T22 MMD       54     Applica 21009     0     HD 24T21 MMD: EMC and environmental testing       50     doc205969-1     1     IEC62288 Flicker test report HD26T22 MMD       49     doc205958-1     2     Minimum brightness test of GDCX Rev 5       48     doc102352-3     IEC60945 technical report: JH 19714 MMD-AA1-AABA       44     2008-3511     IEC60945 technical report: JH 19714 MMD-AA1-AABA       45     2013-3038     IEC60945 technical report: JH 19714 MMD-			_	
68     applica 20869     1     HD55T22 EMC and environmental testing       67     Nemko E16240.01     HD55T22 Vibration test       65     doc205992-1     IEC62288 conformance test report HD32T22       64     doc206156-1     1     HD 27T22 MMD - IEC62288 FILCKER TEST       62     doc206155-1     1     HD 27T22 MMD - MA1-FAGA-ES: IEC62288 and colour calibration       60     Applica 20941     0     EMC and environmental testing of HD 27T22 MEC       59     Applica 20885     0     EMC and environmental testing of HD 27T22 MEC       56     doc102352-2     2     IEC62288 : Conformance test report 24T22 MMD       56     doc102352-2     2     IEC62288 : Conformance test report 24T22 MMD       57     Applica 21009     0     HD 24T21 MMD: EMC and environmental testing       50     doc205969-1     1     IEC62288 iccentest report HD26T22 MMD       49     doc205958-1     2     Minimum brightness test of GDCX Rev 5       48     doc102352-3     IEC60945 technical report: JH 20T17 MMD-AA1-AABA       44     2008-3511     IEC60945 technical report: JH 19T14 MMD-AA1-AOAA       45     2013-3038			_	
67     Nemko E16240.01     HD55T22 Vibration test       65     doc205992-1     IEC62288 conformance test report HD32T22       64     doc205170-1     IEC62288 flicker test HD32T22       63     doc206156-1     1     HD 27T22 MMD - IEC62288 FLICKER TEST       62     doc206155-1     1     HD 27T22 MMD - IEC62288 FLICKER TEST       63     doc205967-1     1     HD 27T22 MMD - MA1-FAGA-ES: IEC62288 and colour calibration       60     Applica 20885     0     EMC and environmental testing of HD 27T22 MEC       58     doc205967-1     Flicker test report HD24T22     S6       56     doc102352-2     2     IEC62288 Conformance test report 24T22 MMD       54     Applica 21009     0     HD 24T21 MMD: EMC and environmental testing       50     doc205969-1     1     IEC62288 Flicker test report HD26T22 MMD-MA1-FAGA-ES       49     doc205958-1     2     Minimum brightness test of GDCX Rev 5       48     doc102352-3     IEC60945 technical report: JH 20T17 MMD-AA1-AABA       45     2013-3038     IEC60945 technical report: JH 19T14 MMD-AA1-AAAA       44     2008-3324     IEC60945 technical report: JH				
65     doc205992-1     IEC62288 conformance test report HD32T22       64     doc206156-1     1     HD 27T22 MMD - IEC62288 FLICKER TEST       62     doc206155-1     1     HD 27T22 MMD-MA1-FAGA-ES: IEC62288 and colour calibration       60     Applica 20941     0     EMC and environmental testing of HD 27T22 MEC       59     Applica 20885     0     EMC and environmental testing of HD 27T22 MEC       58     doc205967-1     Flicker test report HD24T22       56     doc102352-2     2     IEC62288: Conformance test report 24T22 MMD       54     Applica 21009     0     HD 24T21 MMD: EMC and environmental testing       53     Applica 21008     0     HD 24T21 MMD: EMC and environmental testing       54     doc102352-3     IEC62288 Flicker test report HD26T22 MMD       56     doc102352-3     IEC62288 Conform. test report HD26T22 MMD       57     48     doc102352-3     IEC62288 Conform. test report HD26T22 MMD       58     doc102352-3     IEC60945 technical report: JH 20T17 MMD-AA1-AABA       59     2013-3038     IEC60945 technical report: JH 19T14 MMD-AA1-AAAA       44     2008-3528     IEC60945 technic			1	
64     doc205970-1     IEC62288 flicker test HD32T22       63     doc206155-1     1     HD 27T22 MMD - IEC62288 FLICKER TEST       62     doc206155-1     1     HD 27T22 MMD-MA1-FAGA-ES: IEC62288 and colour calibration       60     Applica 20941     0     EMC and environmental testing of HD 27T22 MEC       59     Applica 20885     0     EMC and environmental testing of HD 27T22 MEC       58     doc205967-1     Flicker test report HD24T22       56     doc102352-2     2     IEC62288 Conformance test report 24T22 MMD       54     Applica 21009     0     HD 26T22 MMD: EMC and environmental testing       53     Applica 21008     0     HD 24T21 MMD: EMC and environmental testing       50     doc205969-1     1     IEC62288 Flicker test report HD 26T22 MMD       49     doc205969-1     2     Minimum brightness test of GDCX Rev 5       48     doc102352-3     IEC62288 Conform. test report HD 26T22 MMD-MA1-FAGA-ES       46     2008-3511     IEC60945 technical report: JH 19T14 MMD-AA1-AABA       44     2008-3528     IEC60945 technical report: JH 19T14 MMD-AA1-AABA       42     2008-3324     IE				
63     doc206156-1     1     HD 27T22 MMD - IEC62288 FLICKER TEST       62     doc206155-1     1     HD 27T22 MMD-MA1-FAGA-ES: IEC62288 and colour calibration       60     Applica 20941     0     EMC and environmental testing of HD 27T22 MEC       59     Applica 20885     0     EMC and environmental testing of HD 27T22 MEC       58     doc205967-1     Flicker test report HD24T22       56     doc102352-2     2     IEC62288: Conformance test report 24T22 MMD       54     Applica 21009     0     HD 26T22 MMD: EMC and environmental testing       50     doc205969-1     1     IEC62288 Flicker test report HD26T22 MMD       49     doc205958-1     2     Minimum brightness test of GDCX Rev 5       48     doc102352-3     IEC60945 technical report: JH 20T17 MMD-AA1-AABA       45     2013-3038     IEC60945 technical report: JH 19T14 MMD-AA1-AABA       44     2008-3511     IEC60945 technical report: JH 19T14 MMC-AA1-AABR       42     2008-3324     IEC60945 technical report: JH 19T14 MMC-AA1-AABR       42     2008-3324     IEC60945 technical report: JH 19T14 MMC-AA1-AABA       42     2008-3324     IEC60945				
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34     OME-36520-Z6     Operator's manual: Marine RADAR, FAR-2xx8 series       31     LIC 12-17-023     IEC61162-450 report: FAR-2xx8       30     LIC 12-17-022     IEC61162-1/2 report: FAR-2xx8       29     LIC 12-17-021     CSD IEC60945: FAR-2xx8       28     LIC 12-17-020     IEC60945 others: FAR-2xx8       27     LIC 12-17-019     Temp. & vibration IEC60945: FAR-2xx8       26     LIC 12-17-018     EMC IEC60945: FAR-2xx8			+	
31   LIC 12-17-023   IEC61162-450 report: FAR-2xx8     30   LIC 12-17-022   IEC61162-1/2 report: FAR-2xx8     29   LIC 12-17-021   CSD IEC60945: FAR-2xx8     28   LIC 12-17-020   IEC60945 others: FAR-2xx8     27   LIC 12-17-019   Temp. & vibration IEC60945: FAR-2xx8     26   LIC 12-17-018   EMC IEC60945: FAR-2xx8			+	
30     LIC 12-17-022     IEC61162-1/2 report: FAR-2xx8       29     LIC 12-17-021     CSD IEC60945: FAR-2xx8       28     LIC 12-17-020     IEC60945 others: FAR-2xx8       27     LIC 12-17-019     Temp. & vibration IEC60945: FAR-2xx8       26     LIC 12-17-018     EMC IEC60945: FAR-2xx8			+	
29     LIC 12-17-021     CSD IEC60945: FAR-2xx8       28     LIC 12-17-020     IEC60945 others: FAR-2xx8       27     LIC 12-17-019     Temp. & vibration IEC60945: FAR-2xx8       26     LIC 12-17-018     EMC IEC60945: FAR-2xx8				
28     LIC 12-17-020     IEC60945 others: FAR-2xx8       27     LIC 12-17-019     Temp. & vibration IEC60945: FAR-2xx8       26     LIC 12-17-018     EMC IEC60945: FAR-2xx8				
27     LIC 12-17-019     Temp. & vibration IEC60945: FAR-2xx8       26     LIC 12-17-018     EMC IEC60945: FAR-2xx8				
26 LIC 12-17-018 EMC IEC60945: FAR-2xx8				
	20	Applica 20128	0	Performance testing of Radar FAR-3000 series

Job Id: **344.1-006649-1** Certificate No: **MEDB00002AU** 

## APPENDIX

NPS	Document No.	Rev.	Document Title
No.	Document No.	Rev.	Document ritle
21	RET-17-009		The answer of DNVGL comment about FAR-2xx8 type approval
20	K03-17-1538		DNV type approval testing report for pending items: FCR-2xx9 series
19	K03-17-1758		Wind tunnel test report: Radiator & scanner XN12CF/XN20CF/XN24CF and RSB-128
18	K03-17-1759		Wind tunnel test report: Radiator/scanner SN36CF/RSB- 129
17	K03-17-1814		Result of TT and Association scenario test marine Radar: FAR-3xx0
16	K03-17-1815		DNV type approval report Marine Radar: FAR-3xx0
15	K03-17-1869		Radar antenna radiation pattern data : FAR-3xxx series
14	K03-17-1888	1	Performance in sea and rain clutter : FAR-3210 with XN-20CF
13	K03-17-1894	1	Performance in sea clutter : FAR-3xx0
12	K03-17-1899	1	Performance in sea and rain clutter : FAR-3xx0
11	K03-17-2549		DNVGL type test report marine Radar FAR-2xx8
10	K03-17-2567		Result of TT and Association scenario test: FAR-2xx8
9	QINETIQ/MS/MAR/CR1303		Unwanted emission measurements of RTR-
	326/V1.2		105/106/107/111 XN-12CF, XN-24CF, SN36CF
8	OSE-36520-Z1		Operator's Guide FAR-2xx8 series
5	LIC 12-16-012		IEC62288 ed.2.0: Monitor unit MU-270W
3	BSH/4543/4342577/13-1		Marine Radar FAR-2xx7: IEC62388(2013)
2	BSH 6522/1114-8/2004		FAR-2xx7 radar Series
1	FLI 12-10-039		IEC62288 & IEC62388 test report for MU-190 and MU-231
57*	DELTA-L102798-475n		Test of Flicker from 15, 19, 20 inch monitors for use as
	(n=1,2,3)		ECDIS monitor

#### Type Examination documentation cont.

\*Ref. physical archive 344.1-004741-3