



TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB00008HF
Revision No:
1

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

That the Radar equipment

with type designation(s)
FAR-3015, FAR-3025, FAR-3035S, FAR-3035S-NXT, FAR-3025-NXT

Issued to

Furuno Electric Co., Ltd.
Nishinomiya, Japan

is found to comply with the requirements in the following Regulations/Standards:

Regulation **MSN 1874 Amendment 7,**

item No. UK/4.64 SOLAS 74 as amended, Reg. V/18, 19, X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. A.278 (VIII), A.694(17), MSC.191(79), 192(79), 302(87), IMO MSC.1/Circ.1349, ITU-R M.1177-4 (04/11)

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

This Certificate is valid until **2028-06-22**.

Issued at **London** on **2023-11-13**

DNV local unit:
Japan CMC



for **DNV UK Ltd.**

Approval Engineer:
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MER Service Responsible



**Maritime &
Coastguard
Agency**

UK Approved Body Authorised
by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.

"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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: MER 201.GBR

Revision: 2023-03

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Product description

The Radar and Back-up ECDIS; FAR-3015, FAR-3025, FAR-3035S, FAR-3035S-NXT, FAR-3025-NXT consist of the following units:

Unit	Location
Processor unit	Protected
Monitor (display) unit	Protected
Control unit (operation panel)	Protected
Data interface	Protected
Transceiver unit (Up-mast)	Exposed
or Transceiver unit (Down-mast)	Protected
Scanner power supply unit	Protected
Antenna unit	Exposed

For details, see Appendix.

Application/Limitation

- The FAR-3xx5 is found to be in compliance with the requirements for RADAR for ships and high speed craft; CAT 1C, CAT 2C, CAT 1HC and CAT 2HC (dependent of monitor and antenna rpm).
- Back-up ECDIS: The FAR-3xx5 is found to be in compliance with the requirements of SOLAS V/19.2.1.5 and the Commission Implementing Regulation (EU) 2022/1157 when configured as Back-up for ECDIS.
- The FAR-3xx5 may be configured for processing(combining) the radar signals from two separate sources (2 transceivers).
- The DVI interface shall be used for video signal transfer between Processor unit and Monitor unit.
- The FAR-3xx5 may be interconnected to the VDR thru the DVI-I port (RGB) or via LAN2 port (IEC61162-450) in compliance with IEC61996-1.
- The FAR-radar shall be installed and tested onboard in accordance with the Installation Manual (ref. appendix)

Type Examination documentation

- See Appendix.

Tests carried out

- Performance: IEC 62388 (2013)
- Performance: IEC 61174 (2015) Annex F
- Interface: IEC 61162-1 (2016)
- Interface: IEC 61162-2 (1998)
- Interface: IEC 61162-450 (2018)
- Presentation: IEC 62288 (2021)
- Environmental: IEC 60945 (2002) +Corr.1 (2008)
- Bridge Alert Management: IEC 62923-1 (2018) and IEC 62923-2 (2018)

Marking of product

The type designation and name and contact address of the manufacturer shall be affixed visibly, legibly and indelibly to the product. In addition the product shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.

APPENDIX

Product description

The Chart Radars: FAR-3015, FAR-3025, FAR-3035S, FAR-3035S-NXT, FAR-3025-NXT comprise combinations of the following components:

Unit	Model Name	Components	Remark
Processor Unit	EC-3005	Mother board: ADP-219-01 Intel HD Graphics P630, SSD & CF, DVD- drive, USB-ports	<i>For Chart Radar & ECDIS backup the graphical unit and the monitor shall be of calibrated type</i>
Data Interfaces (embedded)	Connector J3 - J6	TTYCS(LA)-4	IEC61162-2/61162-1
	Connector J7 – J10	TTYCS(LA)-1Q	IEC61162-1
	Ethernet 1000Base-T	2 ports	LAN
Monitor Unit (VDU)	MU-190 ¹⁾ or MU-192HD ¹⁾²⁾ or MU-231 or MU-201CE ¹⁾ or MU-231CE or MU-270W or WE270FU or JH19T14 FUD-xx4 ¹⁾ or JH20T17 FUD-xx4 ¹⁾ or JH23T12 FUD-xxx ²⁾ or JH23T14 FUD-xx4 ¹⁾ or HD19T22-xx4 ¹⁾ or HD24T22 FUD-xx4 ¹⁾ or HD26T21 MMD-xx4 or HD26T22 FUD-xx4 or HD27T22 FUD-xx4 or HD32T22 FUD-xx4 or HD55T22 FUD-xx4 or WA460-01-MON-01-XXFU or WA270-01-MON-01-XXFU		¹⁾ CAT 2 monitor ²⁾ RADAR only - not for ECDIS backup <i>x=variable letter/number according to manufacturer's type number identification</i>
Radar Control unit	RCU-025		
Trackball control unit	RCU-026		
Transceiver/antenna Unit	FAR-3015 FAR-3025	XN12AF-RSB146-RTR13n or XN20AF-RSB146-RTR13n or XN24AF-RSB146-RTR13n and PSU-014	<i>n=1 or 2</i>
	FAR-3035S	SN36CF-RSB129-RTR107 and PSU-014 or PSU-015	
Transceiver/antenna Unit	FAR-3035S-NXT	SN36CF-RSB133-RTR111 and PSU-016 or PSU-018	<i>Solid State</i>
	FAR-3025-NXT	XN12CF-RSB128-RTR123 or XN20CF-RSB128-RTR123 or XN24CF-RSB128-RTR123 and PSU-014	<i>Solid State</i>

Unit	Model Name	Components	Remark
Performance monitors	PM-32A, PM-52A PM-32B, PM-52B (solid states)		
ECDIS control unit	RCU-024		<i>Optional</i>
Sensor Adapter (interface unit)	MC-3000S	Serial to network (IEC61162-450)	<i>Optional</i>
Sensor Adapter (interface unit)	MC-3010A	Analog	<i>Optional</i>
Sensor Adapter (interface unit)	MC-3020D	Digital IN	<i>Optional</i>
Sensor Adapter (interface unit)	MC-3030D	Digital OUT	<i>Optional</i>
LAN switch/switching HUB	HUB-100		<i>Option – for proprietary LAN interface.</i>
LAN switch/intelligent HUB	HUB-3000 ³⁾		<i>Option – for IEC 61162-450 external LAN interface.</i> ³⁾ <i>ECDIS backup: Mandatory</i>
Junction Box	RJB-001		<i>Optional</i>
LAN signal converter	HMC-200CE-A		<i>Optional</i>
Software	Main: 0359266 Ver. 05.xx SPU: 0359281 ver.01.xx (Magnetron radar) 0359286 ver.01.xx (S-band solid state radar) 0359477 ver.01.xx (X-band solid state radar)		
RADAR			
ECDIS backup	Ver. 5.xx Linux 5.x Jeppesen SDK 6.0		

Type Examination documentation

DNV No	Document ID	Rev.	Description
3	IME-36160-T1	2023-05-16	Manual: Furuno, Installation Manual- Chart Radar Model FAR-3015/ 3210(-BB)/ 3310/ 3025/ 3220(-BB)/ 3320/ FAR-3220W-BB/ 3320W/ 3035S/ 3230S(-BB)/ 3330S/ FAR-3230SW-BB/ 3330SW/ 3035S-NXT/ 3230S-SSD(-BB)/ FAR-3330S-SSD/ 3025-NXT/ 3220-NXT(-BB)/ 3320-NXT
4	OME-36160-R30	2023-10-17	Manual: Furuno, Operator's Manual- Chart Radar, FAR-3015/ 3210(-BB)/ 3310/ 3025/ 3220(-BB)/ 3320/ FAR-3220W-BB/ 3320W/ 3035S/ 3230S(-BB)/ 3330S/ FAR-3230SW-BB/ 3330SW/ 3035S-NXT/ 3230S-SSD(-BB)/ FAR-3330S-SSD/ 3025-NXT/ 3220-NXT(-BB)/ 3320-NXT
5	OSE-36160-G10	2204 REFU	Manual: Furuno, Operator's Guide - CHART RADAR, Model FAR-3015/3210(-BB)/3310/3025/3220(-BB)/3320/FAR-3220W-BB/3320W/3035S/3230S(-BB)/3330S/FAR-3230SW-BB/3330SW/3035S-NXT/3230S-SSD(-BB)/FAR-3330S-SSD/3025-NXT/3220-NXT(-BB)/3320-NXT
8	K03-17-3345	2023-09-20	Report: Furuno, Type Approval test report for FAR-30x5 and FAR-3xx0 series marine radar according to IEC 62288 (2021)
9	K03-17-1759		Wind Tunnel test report - RSB-129 & SN36CF
10	K03-17-1758		Wind Tunnel test report - RSB-128 & XN12CF/XN20CF/XN24CF
13	K03-17-1814		TT and Association scenario test Marine Radar
14	K03-17-1815		DNV type approval testing report: IEC62388
15	OMC-44670-Z		Monitor MU-190: Operator's manual
17	OMC-44690-Z		Monitor MU-231 Operator's manual
18	FLI 12-03-058		IEC60945 test report
19	FLI 12-10-068	1	IEC60945 test report - monitor units
20	FLI 12-11-111		IEC60945 test report - ECDIS FMD-3000 series

DNV No	Document ID	Rev.	Description
21	FLI 12-11-112		IEC61162-1 test report - FMD-3000 series ECDIS
22	FLI 12-12-025		IEC60945 test report - FMD-3000 series ECDIS
23	FLI 12-13-057		IEC60945 & 62388 test report - FAR-3230S/-3330S
24	FLI 12-13-058		IEC60945 & 62388 test report - FAR-3210/-3310/-3220/-3320
25	FLI 12-13-059		IEC60945 & 62388 test report - FAR-3230S-SSD/-3330S-SSD
26	FLI 12-13-062		IEC60945 EMC test report - FAR-3210/-3310/-3220/-3320
27	FLI 12-13-063		IEC60945 EMC test report - FAR-3230S/-3330S
28	FLI 12-13-064		IEC60945 EMC test report - FAR-3230S-SSD/-3330S-SSD
29	K03-17-1869		Antenna radiation pattern for FAR-3xxx series
30	QINETIQ/MS/MAR /CR1303326/V1.2	1.2	Unwanted emission measurements - FAR-3xxx-series
31	FLI 12-13-072		IEC60945 EMC test report - FAR-3230S/-3330S
32	FLI 12-13-073		IEC60945 test report -FAR-3230S/-3330S
33	FLI 12-13-074		IEC60945 EMC test report -FAR-3210/-3310/-3220/-3320
34	FLI 12-13-075		IEC60945 test report -FAR-3210/-3310/-3220/-3320
35	FLI 12-13-076		IEC60945 EMC test report -FAR-3230S-SSD/-3330S-SSD
36	FLI 12-13-077		IEC60945 test report -FAR-3230S-SSD/-3330S-SSD
41	K03-17-1899	1	Performance in sea and rain clutter
42	K03-17-1894	1	Performance in sea clutter
43	K03-17-1888	1	FAR-3210 Performance in sea and rain clutter
44	Applica 20128	0	performance testing of RADAR FAR-3000 series
45	K03-17-1424		FCR-2xxx Chart Radar: DNV type approval testing report
46	K03-17-1538		FCR-2xxx Chart Radar: DNV type approval testing report -Pending items
47	K03-17-1554		FCR-2xxx Chart Radar: DNV type approval testing report -Pending items
48	K03-17-1877		DNV Type approval testing report
49	K03-17-2231		DNVGL type approval testing report: Marine Radar FAR-3000 series
50	K03-17-2051		DNV type approval testing report: IEC61162-450
51	LIC 12-15-058		Test report: IEC61162-450 for processor unit for Marine Radar type EC-3000
52	LIC 12-16-0nn	nn = 09, 10, 11, 12	IEC60945 and 62288 test reports: Monitor unit: MU-270W
53	LIC 12-15-059		Test report (IEC61162-450) for Sensor adapters type MC-3000,...
54	OMC-44930-Z4		MU-270W marine display: Operator's manual
55	DNVGL TAA00000S1		Wave series of monitors
56	K03-17-2468		DNVGL type approval testing report - FAR-3000 series
57	E32-01305-G20		Instruction Manual. setting and adjustments
58	K03-17-2679		DNVGL type approval testing report; IEC61174 Annex F & MSC.302(87)
59	K03-17-2792-0		DNVGL type approval testing report for pending items
64	LIC 12-19-028	5	MC-3000S IEC61162-1 Ed.5
65	RFT-19029		The modification of FHD layout for CAT1 requirement
66	K03-17-2929	0	Performance in sea and clutter FAR-2328 NXT
67	TR-30215	0	Performance testing of X-band SSD antenna & transceiver
68	LIC 12-20-002		Test report (ITU-R M.1177) for transceiver type RTR-123
69	K03-17-2885	1.03	DNVGL type approval testing report FAR-3xx0-NXT
71	K03-17-2892	27 September 2019	IEC 62388, Result of TT Marine Radar FAR-2x28 NXT
72	LIC 12-19-151	27 September 2019	IEC 60945, ETSI EN 301 843-1, Furuno Marine Radar Type: FAR-2228-NXT/2228-NXT-BB/2328-NXT, FAR-3220-NXT/3220-NXT-BB/3320-NXT
73	LIC 12-19-152	27 September 2019	IEC 60945, Furuno Marine Radar Type: FAR-2228-NXT/2228-NXT-BB/2328-NXT, FAR-3220-NXT/3220-NXT-BB/3320-NXT - dangerous voltage
74	LIC 12-19-153	27 September 2019	IEC 60945, Furuno Marine Radar Type: FAR-2228-NXT/2228-NXT-BB/2328-NXT, FAR-3220-NXT/3220-NXT-BB/3320-NXT - temperature
75	LIC 12-19-155		IEC 60945, Furuno Marine Radar Type: FAR-2228-NXT/2228-NXT-BB/2328-NXT, FAR-3220-NXT/3220-NXT-BB/3320-NXT - CSD
76	LIC 12-19-156		IEC 60945, Furuno Marine Radar Type: FAR-2228-NXT/2228-NXT-BB/2328-NXT, FAR-3220-NXT/3220-NXT-BB/3320-NXT - Electromagnetic RF radiation

DNV No	Document ID	Rev.	Description
77	K03-17-3122	Ver. 1.03	Report: DNV type approval report - Model : MARINE RADAR - Type: FAR 3 xx 0 series
78	IME-36160-T	T: FEB. 14, 2023	Manual: Furuno - Installation Manual - CHART RADAR - Model: FAR-3xxx series
79	LIC 12-21-037	7 April 2021	Report: LABOTECH IEC61162-450 (2018), for FAR-3xx0 series
80	LIC 01-21-014	7 April 2021	Report: LABOTECH IEC61162-450 (2018), Reference document for LCI 12-21-037 for FAR-3xx0 series
81	LIC 01-21-017	26 April 2021	Report: LABOTECH: Reference document for IEC 61162-450 test performed by LIC (LIC test report no. LIC 12-21-055 for MC-3000S)
82	LIC 12-21-055	26 April 2021	Report: LABOTECH: IEC 61162-450 (2018) Model: Sensor Adapter Type: MC-3000S
83	DOC208060-1	Rev. 1	Report: Hatteland - IEC62288 flicker test report JH 23T14 MMD-MR4-AABA
84	DOC208070-1	Rev.1	Report: Hatteland - Conformance test report JH 23T14 MMD-MR4-AABA
85	DOC208088-1	Rev.1	Report: Hatteland - IEC62288 flicker test report_ H 20T17 MMD-MR4-AABA
86	DOC208089-1	Rev. 1	Report: Hatteland - Conformance test report JH 20T17 MMD-MR4-AABA_SIGNED
87	DOC208098-1	Rev. 1	Report: Hatteland - Conformance test report JH 19T14 MMD-AR4-AOBC_SIGNED
88	DOC205958-1	Rev. 5	Report: Hatteland, IEC62288 Minimum brightness test of GDCX
89	DOC206081-1	Rev. 1	Report: Hatteland, IEC62288 flicker test report HD 19T22 MMD_SIGNED
90	DOC206405-1	Rev. 1	Report: Hatteland, Conformance test report HD 19T22 MMD-MA1-FOGP_HTB30-DVI-D
91	K03-17-3209	17. SEPT 2021	Report: Furuno DNV type approval Hatteland FAR - RADAR
92	K24-17-1048	06. OCT 2021	Report: FMD TA test procedure (HD19T22 FUD)
93	K24-17-1061	08. OCT 2021	Report: FMD TA test procedure (JH19T14 FUD)
94	K24-17-1059	06. OCT 2021	Report: FMD TA test procedure (JH20T17 FUD)
95	K24-17-1057	06. OCT 2021	Report: FMD TA test procedure (JH23T14 FUD)
96	MRA0000003	Rev. 3	Certificate: IEC 60945 Monitors HD series
97	MRA0000006	Rev. 2	Certificate: IEC 60945 Monitors HD x-series
98	MRA0000016	Rev. 3	Certificate: IEC 60945 Monitors HD series
99	INB10036-4	Rev 00_01	Manual: User Manual Series 1 G2 - Maritime Multi Display Models
103	CEBDLB-WTW-P21041117	May 04, 2021	Report: BV, Partial IEC 60945 Test report Display HD 24T22
104	170703001T	Rev.1	Report: CAL-TECH, IEC 60945 Display HD 26T22 MMC-AX3-4GM11F-ES
105	210426002T	Rev. 1	Report: CAL-TECH, IEC 60945 Display HD 24T22 MEC-MP9-4AAH1A-ES3
106	VS-TV-100708-01	2021/07/08	Report: VST, IEC 60945, Display HD 24T22 MEC-MP9-4AAH1A-ES3
107	LIC 12-22-049	27 April 2022	Report: LABOTECH: IEC60945 EMC, ECDIS/Chart Radar Model: FMD-3xx5/FAR-3xx5, Type EC-3005
108	LIC 12-22-050	27 April 2022	Report: LABOTECH, IEC60945 (temp, vibration, acoustic noise, dangerous vol), ECDIS/Chart Radar, Model: FMD-3xx5/FAR-3xx5, Type: EC-3005
109	LIC 12-22-051	27 April 2022	Report: LABOTECH, IEC60945 Compass safe distance, ECDIS/Chart Radar, Model: FMD-3xx5/FAR-3xx5, Type: EC-3005
110	DOC207208-1	R09	Hatteland: Statement of Manufactor Similarity for HD 24T22 FEC-MP9-4AAH1A
111	DOC209115-1	R01	Report: Conformance test report HD 24T22 MMD-MA1-FAGA-30001
112	DOC209117-1	R01	Report: IEC62288 flicker test report HD 24T22 MMD-MA1-FAGA-30001
113	DOC209240-1		Report: HD 24T22 FUD HW03+ ECDIS Compliance Statement
114	PDF202100-1	REV 0	Report: HD 24T22 MMD-MA1-FAGP Technical Report 2017-21008 Maritime
115	PDF208404-1	REV 1	Report: HD 24T23 WAC-DFA-4GP0AA-1 Technical Report 191220001T
116	DOC205825-1	R08	Hatteland: HD 24T22 MMD - IEC 60945 & IACS E10 Statement_R08
117	DOC206850-2		Hatteland: Statement of Manufactor Similarity for HD 24T22 FUD-MA4-FAGx
118	TAA00002TT	Rev. 1	Type Approval Certificate, Bridge Monitor WE270
119	TAA000028U	Rev. 2	Type Approval Certificate, Bridge Monitor WE270

DNV No	Document ID	Rev.	Description
120	15-2021	Rev. 1.0	Manual: Display WaveII-UM
121	P18-0006	Rev. 2	Report: IEC60945 IACS E10 WE270 Monitor
122	K03-17-3327	20 Oct 2022	Report: Furuno, Marine Radar FAR-3xx0/2xx8 series NorthInvent WE270FU
123	K26-17-366	13 March 2023	Report: Furuno, Display Presentation WE270 Colour Calibration Report
124	NI/0004/rev1.0/2020	10-06-2020	Report: North Invent, IEC 62288-62388 WE270 Bridge Display
125	K03-17-3278	Appendix	Report: Furuno: DNVGL type approval testing report FAR-2018-MARK-2/2028-MARK-2/FAR-3015/3025
127	LIC 12-22-111	31 August 2022	Report: LABOTECH IEC 60945, ETSI EN 301 843-1 and ETSI EN 302 248, Marine Radar F AR-2018-MARK-2, FAR-3015
128	LIC 12-22-112	31 August 2022	Report: LABOTECH IEC 60945 (TEMP) Marine Radar F AR-2018-MARK-2, FAR-3015
129	LIC 12-22-113	31 August 2022	Report: LABOTECH IEC 60945 (Dangerous voltage) Marine Radar F AR-2018-MARK-2, FAR-3015
130	LIC 12-22-114	31 August 2022	Report: LABOTECH IEC 60945 (Electromagnetic RF radiation) Marine Radar F AR-2018-MARK-2, FAR-3015
131	LIC 12-22-115	31 August 2022	Report: LABOTECH IEC 60945 (CSD) Marine Radar F AR-2018-MARK-2, FAR-3015
132	LIC 12-22-088	31 August 2022	Report: LABOTECH. IEC 60945 and IEC 62388 (Vibration Shock) Marine Radar F AR-2028-MARK-2, FAR-3025
133	LIC 12-22-089	31 August 2022	Report: LABOTECH. IEC 60945 and IEC 62388 (rain and spray) Marine Radar F AR-2028-MARK-2, FAR-3025
134	LIC 12-22-122	31 August 2022	Report: LABOTECH. IEC 60945 and IEC 62388 (EMC) Marine Radar F AR-2028-MARK-2, FAR-3025
135	LIC 12-22-123	31 August 2022	Report: LABOTECH. IEC 60945 and IEC 62388 (TEMP) Marine Radar F AR-2028-MARK-2, FAR-3025
136	LIC 12-22-124	31 August 2022	Report: LABOTECH. IEC 60945 and IEC 62388 (Excessive conditions/dangerous voltage) Marine Radar F AR-2028-MARK-2, FAR-3025
137	LIC 12-22-125	31 August 2022	Report: LABOTECH. IEC 60945 and IEC 62388 (Electromagnetic RF radiation) Marine Radar F AR-2028-MARK-2, FAR-3025
138	LIC 12-22-126	31 August 2022	Report: LABOTECH. IEC 60945 and IEC 62388 (CSD) Marine Radar F AR-2028-MARK-2, FAR-3025
140	K03-17-3279	Rev.0 - 25th March 2	Report: Furuno, IEC 62388, 6.9.3.2, 6.9.3.3, 6.9.3.4, Performance in sea and rain clutter Model: FAR 2028 MARK 2 with XN 24A and Model: FAR-3015 with XN 12A F
141	LIC12-22-142	9 September 2022	Report: LABOTECH ITU-R M.1177, FURUNO Model: Transceiver for MARINE RADAR FAR-2018-MARK-2, FAR-3015 Type: RTR-131
142	LIC 12-22-143	9 September 2022	Report: LABOTECH ITU-R M.1177, FURUNO Model: Transceiver for MARINE RADAR FAR-2028-MARK-2, FAR-3025 Type: RTR-132
143	LIC12-22-007	10 February 2022	Report: LABOTECH, IEC 62388 Clause 15.5.2 Wind Tunnel, Model: MARINE RADAR, Type: FAR-2018-MARK-2/2028-MARK-2, FAR-3015/3025
144	31140	1.0	Report: Applica IEC 62388 Ch.6 Overseas testing, Radar Test Report Furuno FAR-2018-MARK-2, FAR-2028-MARK-2, FAR-3015, FAR-3025
145	K03-17-3278	2023.3.9	Report: Furuno IEC 62388 Ch. 6. Overseas Testing, Model: MARINE RADAR, Type: FAR-2018-MARK-2/2028-MARK-2
147	LIC 12-22-134	8 September 2022	Report: LABOTECH, IEC 60945 EMC Furuno Marine Display MU-192HD
148	LIC 12-22-135	8 September 2022	Report: LABOTECH, IEC 60945 Temperature Furuno Marine Display MU-192HD
149	LIC 12-22-136	8 September 2022	Report: LABOTECH, IEC 60945 excessive conditions, acoustic noise, VDU emission Furuno Marine Display MU-192HD
150	LIC 12-22-137	8 September 2022	Report: LABOTECH, IEC 60945 CSD Furuno Marine Display MU-192HD
151	LIC 12-22-144	16 September 2022	Report: LABOTECH, IEC 60945 Vibration Furuno Marine Display MU-192HD
152	LIC 12-22-161	20 October 2022	Report: LABOTECH, IEC 62288 Furuno Marine Display MU-192HD

DNV No	Document ID	Rev.	Description
154	221026001T	1	Report: CAL-TECH. IEC 60945 test report for HD 24T22 MEC-MP9-4AAH1A-ES
155	CEBDLB-WTW-P22110073	2022-12-19	Report: BV, Partial IEC60945 test report for HD 24T22 MEC-MP9-4AAH1A-ES
156	VS-TV-111207-01	2022-12-07	Report: Vibration Source Technology Co. LTD, Vibration test report for HD 24T22 MEC-MP9-4AAH1A-ES
157	LIC 12-19-154	2019-09-27	Report: Furuno, IEC 60945, IEC 62388 Furuno Marine Radar Type: FAR-2228-NXT/2228-NXT-BB/2328-NXT, FAR-3220-NXT/3220-NXT-BB/3320-NXT - vibration and shock
158	K03-17-3282	12th April 2022	Report: Furuno IEC 62388 ed.2 (Target tracking scenarios, Association scenario 1-4) Result of TT Scenario Test Model: Marine Radar, Type: FAR-3015/3025
159	CW-110	2022-05-19	Statement: Furuno: Statement for request to waive the corrosion test (8.12 of IEC 60945) on MARINE RADAR Type FAR-3015/3025