U.S. Department of Homeland Security

United States Coast Guard

Commandant
United States Coast Guard

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16714 / 46 CFR 161.155
March 19, 2003

Furuno USA
Attn: Mr. Eric Kunz
4400 NW Pacific Rim Blvd
Camas, WA 98607

Dear Mr. Kunz:

We have reviewed your application dated January 7, 2003, requesting a U.S. Coast Guard Certificate of Approval for your Furuno USA FA-100 Automatic Identification System (AIS), (identified hereafter as Furuno USA FA-100 AIS). The Furuno USA FA-100 AIS was successfully tested by Bundesamt fur Seeschifffahrt und Hydrographie (BSH) as meeting the requirements of:

ITU Recommendation ITU-R M.1371-1
IEC 60945
IEC 61162 (applicable part)
IEC 61993-2
IMO Resolutions A.694(17), and MSC.74(69), Annex 3

The following approval numbers have been assigned:

Furuno USA FA-100 AIS 165.155/2/0	Dated: March 19, 2003 Expires: March 19, 2008

Any modifications to the approved unit will nullify its approval. Therefore, the manufacturer must submit any revisions for U.S. Coast Guard review. Prior to the expiration date, you must notify us in writing if you wish to extend the approval five more years.

Final shipboard acceptance of the Furuno USA FA-100 AIS is based on the installation, materials, and workmanship being to the satisfaction of the cognizant Officer in Charge, Marine Inspection.

Sincerely,

R.W. MARTIN
Commander, U.S. Coast Guard
Chief, Systems Engineering Division
Office of Design and Engineering Standards
By direction of the Commandant

Encl: U.S. Coast Guard Approval Certificate Number 165.155/2/0

Copy: G-MSE-4

U. S. Department of Homeland Security
United States Coast Guard
Certificate of Approval

Coast Guard Approval Number: 165.155/2/0 Expires: 19 March 2008

SHIPBORNE AUTOMATIC IDENTIFICATION SYSTEM (AIS)
Furuno USA

FURUNO USA
4400 NW Pacific Rim Blvd
Camas WA 98607

Furuno USA FA-100 AIS

Furuno USA FA-100 AIS unit consists of VHF/GPS antennas, a transponder unit containing a VHF transmitter, two TDMA receivers on two parallel VHF channels, a DSC channel 70 receiver, interface, communication processor, LCD display, and internal GPS receiver. The internal GPS is a 12-channel all in view receiver with a differential capability and provides UTC reference for a system synchronization as well as course over ground (COG) and speed over ground (SOG) when the external GPS fails.

The Furuno USA FA-100 AIS system meets the requirements set forth in:
IMO Resolution A.694(17)
MSC.74(69) Annex 3
Recommendation ITU-R M.1371-1
IALA Technical Clarifications on Recommendation ITU-R M.1371-1
IEC 60945,
IEC 61162 (applicable parts), and
IEC 61993-2.

Furuno FA-100 AIS units sold by Furuno USA shall meet the checksum requirements set forth in IEC 61162-1 Ed. 2 and IEC/PAS 61162-100. This equipment approval is limited to units sold exclusively by Furuno USA. Labeling of the equipment must clearly state that the equipment is the Furuno USA FA-100 AIS model.

Tested by BSH- Certificate No. 734.2/0043-1/2002

Furuno USA FA-100 AIS.

*** END ***

THIS IS TO CERTIFY THAT the above named manufacturer has submitted to the undersigned satisfactory evidence that the item specified herein complies with the applicable laws and regulations as outlined on the reverse side of this Certificate, and approval is hereby given. This approval shall be in effect until the expiration date hereon unless sooner canceled or suspended by proper authority.

GIVEN UNDER MY HAND THIS 19th DAY OF MARCH 2003, AT WASHINGTON D.C.

RAYMOND W. MARTIN, CDR
CHIEF, SYSTEMS ENGINEERING DIVISION
BY DIRECTION OF THE COMMANDANT, U.S.C.G.