



16714 / 46 CFR 165.155
April 18, 2003

MX Marine
Attn: Mr. Dick Waunus
23868 Hawthorne Blvd
Torrance, CA 90505

Dear Mr. Waunus:

We have reviewed your application requesting a U.S. Coast Guard Certificate of Approval for your MX Marine MX531 Automatic Identification System (AIS), (identified hereafter as MX 531 AIS). The MX 531 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:

MX Marine MX531 AIS
165.155/4/0

Dated: April 18, 2003
Expires: April 18, 2008

This certification remains valid for five years from April 18, 2003, unless we suspend, withdraw, or terminate it. Only the manufacturer of the AIS may apply for this certification to be extended by writing to the Commandant (G-MSE-3) before it expires. If the AIS is no longer produced and thus terminated, the AIS continues to be considered certified based on the AIS test date of manufacture, the vessel installation date, and a valid certification for that time period. You cannot transfer this certification to another manufacturer without written authorization from the Commandant (G-MSE-3). You must notify the Commandant in writing when you make any change in the design or construction of these devices or when you cease manufacturing these devices.

Final shipboard acceptance of the MX Marine MX531 AIS is based on the installation, materials, and workmanship being to the satisfaction of the cognizant Officer in Charge, Marine Inspection.

Sincerely,

A handwritten signature in black ink, appearing to read "R.W. Martin".

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 165.155/4/0

Copy: G-MSE-4



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

Coast Guard Approval Number: 165.155/4/0

Expires: 18 April 2008

SHIPBORNE AUTOMATIC IDENTIFICATION SYSTEM (AIS)

MX MARINE
23868 Hawthorne Blvd
Suite 200
Torrance CA 90505

MX Marine Automatic Identification System MX531 with the MX420 display unit.

AIS DEBEG electronic Unit MX Marine 531 with software release 1.0
MX Marine Navigation display MX420 AIS with software release 2.0
CXL 2-1 VHF Antenna (or equivalent)
1330 FP GPS Antenna (or equivalent)

The MX Marine MX 531 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.

BSH Test Report No 734.2/0048-1/2003/S3220

Federal Communications Commission (FCC) Certification is required.

MX Marine Automatic Identification System MX531 with MX 420 display unit.

*** 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 18th DAY OF
APRIL 2003, AT WASHINGTON D.C.

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