

U.S. Department of
Homeland Security

United States
Coast Guard



Commandant
United States Coast Guard

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2013-3057
16714 / 46 CFR 165.210
April 16, 2013

Navico Holding AS
Attn: Mr. Gunleif Kindervåg
Nyaskaiveien 2
N-4373
Egersund Norway

Mr. Kindervåg,

Our office has reviewed your application requesting a U.S. Coast Guard Certificate of Approval for the Navico Holding AS, AP70/AP80 Heading Control System for High Speed Craft. This unit meets the requirements of the applicable International Standards and is certified as follows:

The following approval number has been assigned:

AP70/AP80 - Heading Control System for High Speed Craft Dated: April 16, 2013
165.210/3/0 Expires: April 16, 2018

This certification remains valid until April 16, 2018 unless our office suspends, withdraws, or terminates it. The device manufacturer may apply for extension of this certification by writing to our office before it expires. If the equipment is no longer produced our office continues to consider it certified based on the date of manufacture, the vessel installation date, and the valid certification for that time period. You cannot transfer this certification to another manufacturer without written authorization from our office. You must notify our office in writing when you make any change in the design or construction of the device or when you cease manufacturing the device. Final shipboard acceptance of the Navico Holding AS, AP70/AP80 Heading Control System for High Speed Craft 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 "C. K. Marcy", written over a circular stamp or seal.

C. K. MARCY
Commander, U.S. Coast Guard
Office of Design and Engineering Standards
Chief, Systems Engineering Division
By direction

Encl: U.S. Coast Guard Certificate of Approval Number 165.210/3/0



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

Coast Guard Approval Number: 165.210/3/0

Expires: 16 April 2018

HEADING CONTROL SYSTEM FOR HIGH SPEED CRAFT

Navico Egersund AS
Nyaskaiveien 2
N-4373
Egersund NORWAY

Navico Holding AS, AP70/AP80 Heading Control System for High Speed Craft.

Navico Holding AS, AP70/AP80 heading control system for high speed craft meets the following standards as set forth in the International Convention for the Safety of Life at Sea (SOLAS) Chapter X Regulation 3.

IMO Resolution A.694(17), IMO Resolution A.822(19), IMO Resolution A.342(IX) as amended by IMO Resolution MSC.64(67) Annex 3, ISO 16329, IEC 60945, and IEC 61162 (applicable part).

Navico Holding AS, AP70/AP80 heading control system for high speed craft consists of the following equipment:

Operator Units -

AP70 (Control Unit, SW Ver: 1.0.40.70) and/or AP80 (Control Unit, SW Ver: 1.1.xx)

Computers:

AC80A (With AD80 and SI80 board, SW Ver: 1.1.xx) or AC80S (With SD80 and SI80 board, SW Ver: 1.1.xx) or AC85 (With SI80 and optional boards: AC70, AD80, SD80; SW Ver: 1.1.xx) or SI80 (With SI80 interface board, SW Ver: 1.1.xx) and AD80 (With AD80 board, SW Ver: 1.1.xx) and/or SD80 (With SD80 board, SW Ver: 1.1.xx)

Network Units:

CZone (Network interface, SW Ver: 2.x), SG05 (EVC gateway, SW Ver: 1.1.xx)

Remote Operator Units (all optional):

QS80 (Non follow up quick stick lever, SW Ver: 1.1.xx), FU80 (Follow up lever, SW Ver: 1.1.xx), NF80 (Non follow up lever, SW Ver: 1.1.xx), R3000X (Portable remote control), JS10 (Non follow up lever), S35 (Non follow up lever), S9 (Non follow up lever)

Sensors (all optional):

RC42N (Monitor compass (not for steering), SW Ver: 1.3.xx), CD100A (Course detector), CDI80 (Course detector, SW Ver: 1.1.xx), GI51 (Gyro compass interface, SW Ver: 1.2.xx), RF300 (Rudder feedback unit), RF45X (Rudder feedback unit), RF14XU (Rudder feedback unit), RF25N (Rudder feedback unit, SW Ver: 1.2.xx)

*** 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 16th DAY OF
APRIL 2013, AT WASHINGTON D.C.


C. K. MARCY
CHIEF, SYSTEMS ENGINEERING DIVISION
BY DIRECTION OF THE COMMANDANT