



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

Coast Guard Approval Number: 162.161/9/0

Expires: 10 August 2017

ENGINEERED HALOCARBON FIRE EXT. SYSTEM

KIDDE-FENWAL INC.  
400 MAIN STREET  
ASHLAND MA 01721

NOVEC 1230 total flooding clean agent fixed fire extinguishing systems.

Fixed fire extinguishing systems for the protection of machinery spaces, cargo pump rooms, and other enclosed spaces with Class B and C hazards. Complies with IMO MSC/Circ.848 as amended by MSC.1/Circ. 1267. Not acceptable for cargo hold protection.

Identifying Data: Underwriters Laboratories, Inc. Reports: Project 01NK35595, File Ex6263 dated 23 September 2002; Project 04NK23160, File 4674 dated 1 February 2005; Project 04NK1456, File 4674 dated 2 February 2005; and Project 04NK23160, File 4674 dated 3 February 2005. Kidde-Fenwal Marine Design, Installation, Operation, and Maintenance Manual P/N 45-NOVMAR-001 revised June 2012, Kidde-Fenwal Flow Calculation Software Manual 45-NOVMAR-100 dated February 2005, and USCG letters dated 16 May 2005 and 10 August 2012.

Follow-up Program: UL.

Approval valid only for products from the above location.

Supersedes and extends certificate dated 16 May 2010 to indicate conformance with MSC.1/Circ. 1267, and recognize 2012 revisions to the approved design manual.

\*\*\* 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 10<sup>th</sup> DAY OF  
AUGUST 2012, AT WASHINGTON D.C.

*[Signature]*  
K. J. HEINZ  
Chief, Lifesaving and Fire Safety Division  
BY DIRECTION OF THE COMMANDANT



**TERMS:** The approval of the item described on the face of the Certificate has been based upon the submittal of satisfactory evidence that the item complies with the applicable provisions of the navigation and shipping laws and the applicable regulations in Title 33 and/or Title 46 of the Code of Federal Regulations. The approval is subject to any conditions noted on this Certificate and in the applicable laws and regulations governing the use of the item on vessels subject to Coast Guard inspection or on other vessels and boats.

Consideration will be given to an extension of this approval provided application is made 3 months prior to the expiration date of this Certificate.

The approval holder is responsible for making sure that the required inspections or tests of materials or devices covered by this approval are carried out during production as prescribed in the applicable regulations.

The approval of the item covered by this certificate is valid only so long as the item is manufactured in conformance with the details of the approved drawings, specifications, or other data referred to. No modification in the approved design, construction, or materials is to be adopted until the modification has been presented for consideration by the Commandant and confirmation received that the proposed alteration is acceptable.

**NOTICE:** Where a manufacturer of safety-at-sea equipment is offering for sale to the maritime industry, directly or indirectly, equipment represented to be approved, which fails to conform with either the design details or material specifications, or both, as approved by the Coast Guard, immediate action may be taken to invoke the various penalties and sanctions provided by law including prosecution under 46 U.S.C. 3318, which provides:

"A person that knowingly manufactures, sells, offers for sale, or possesses with intent to sell, any equipment subject to this part (*Part B. of Subtitle II of Title 46 U.S.C.*) and the equipment is so defective as to be insufficient to accomplish the purpose for which it is intended, shall be fined not more than \$10,000, imprisoned for not more than 5 years or both."