



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

Coast Guard Approval Number: 160.062/9/0

Expires: 05 June 2022

HYDRAULIC RELEASE FOR LIFESAVING EQUIPMENT

OROLIA LTD.  
SILVER POINT  
AIRPORT SERVICE ROAD  
PORTSMOUTH HAMPSHIRE P03 5PB UNITED KINGDOM

McMurdo BreakthRU (may alternatively be labeled as Kannad Marine HRU) disposable hydrostatic release unit, for use in float-free installations of EPIRB's, for release at water depths of not more than 4 meters.

Complies with SOLAS regulation IV/7.1.6.4 and the LSA Code [IMO Resolution MSC.81(70)Part 1, Para. 11]. The hydrostatic release unit is approved for use only with EPIRB's where the specific combination of hydrostatic release unit and EPIRB has been tested in accordance with the applicable RTCM requirements and accepted by the FCC.

Device is intended for disposal 2 years after installation, and is not subject to annual testing.

Must be labeled in accordance with 46 CFR 160.062-5 with approval numbers 160.062/9/0 and 160.162/7/0.

Identifying Data: McMurdo HRU Family Tree Dwg. No. 82-444F (issue 5), HRU Assembly Dwg. No. 5871-033 (issue 3), Fuse Switch Board Dwg. No. 3851-009D (issue 4), and associated approved detail drawings as referenced thereon.

Production inspections conducted under supervision of the American Bureau of Shipping (Southampton office); report of production tests and inspections in accordance with 46 CFR 159.007-11 due annually.

Approval valid only for equipment manufactured at the above location.

Extends previous certificate dated June 5, 2012 and updates drawings to latest revision.

\*\*\* 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 05<sup>th</sup> DAY OF  
JUNE 2017, AT WASHINGTON D.C.

B. A. BALDWIN  
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."