



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

Coast Guard Approval Number: 160.162/7/0

Expires: 05 June 2017

HYDRAULIC RELEASE UNIT (SOLAS)

OROLIA LTD.  
SILVER POINT  
AIRPORT SERVICE ROAD  
PORTSMOUTH PO3 5PB  
HAMPSHIRE UNITED KINGDOM

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

Complies with SOLAS and the IMO LSA Code. Device is assigned dual approval numbers; also approved under approval no. 160.062/9/0. Device is intended for disposal 2 years after installation, and is not subject to annual testing. 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 in October.

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

Approval valid only for equipment manufactured at the above location.

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.

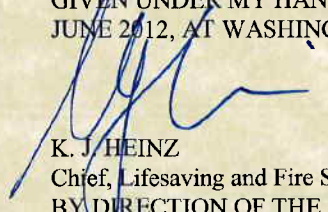
Supersedes previous certificate dated February 17, 2010 to revise company name from McMurdo to Orolia Ltd.

\*\*\* 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 5<sup>th</sup> DAY OF  
JUNE 2012, AT WASHINGTON D.C.

  
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."