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EMA d.o.o.

Mariborska cesta 1c  
3000 Celje, SLOVENIA

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Your reference	Your letter of	Our reference	Extension	Date
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### Type Approval Certificate No. 6046409 HH

Dear Sir or Madam,

enclosed please find the above mentioned certificate.

In case of technical changes please inform us.

The fees for the type approval test will be stated separately.

We would like to inform you about the publication of the "List of Type Tested Products", which has been made available at the web address [www.gl-group.com](http://www.gl-group.com) with immediate effect. You will find a search form under GL Tools / Approval Finder. Your entries are processed and a result page is generated. Wild card symbols (such as \*) may not be used, but it is possible to enter parts of the search terms. By specifying the certificate number, you can call up the certificates in PDF format. These are not signed, and therefore not identical to the original.

Invalid certificates are marked with "expired" in the result page.

From 2008 the invalid certificates will remain published on the Internet for 1 year.

The expired certificates can be renewed.

Yours faithfully,

for DNV GL SE

  
Marco Rinkel

  
Uwe Supke

GLAPP001932734U

# TYPE APPROVAL CERTIFICATE

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No.	<b>60 464 - 09 HH</b>
Company	<b>EMA d.o.o.</b> <b>Mariborska cesta 1c</b> <b>3000 Celje, SLOVENIA</b>
Product Description	<b>Long-Range Identification and Tracking (LRIT) Shipborne Unit</b>
Type	<b>BlueTraker® LRIT, BlueTraker® LRITArctic</b>
Environmental Category	<b>F; EMC 1</b>
Technical Data / Range of Application	<b>Long Range Identification and Tracking (LRIT) shipborne unit based on Iridium satellite system, consisting of:</b> <ul style="list-style-type: none"> <li>- Integral GPS/GLONASS receiver,</li> <li>- Integral GPS/GLONASS antenna,</li> <li>- Integral Iridium transceiver,</li> <li>- Integral Iridium antenna,</li> <li>- Integral power supply.</li> </ul> <b>Power supply:</b> <ul style="list-style-type: none"> <li>- BlueTraker® LRIT (P/N:08567): 12/24 VDC nominal (8 VDC to 36 VDC range)</li> <li>- BlueTraker® LRIT Arctic (P/N: 09204): 24 VDC nominal (21 VDC to 36 VDC range)</li> </ul> <b>Degree of protection:</b> <ul style="list-style-type: none"> <li>- IP68 (depth 6 m, duration 1hour)/ IP69K</li> </ul> <b>Software Version:</b> <ul style="list-style-type: none"> <li>- Firmware LRIT 4.8.B7</li> </ul>
Test Standard	<b>MSC.263(84); MSC.1/Circ.1296;</b> <b>IEC 60945:2002 / EN 60945:2002 / Corr.1:2008;</b> <b>GL Guidelines for the Performance of Type Approvals, Chapter 2 (VI-7-1, 2012).</b>
Documents	<b>Test reports:</b> <b>SIQ T211-0001/14, dated 2014-01-22; SIQ T251-0061/14, dated 2014-01-21;</b> <b>EMA TN14_001, RN: 14R00005, dated 2014-01-24;</b> <b>TRL EU2398/6579; RU1196/6580;</b> <b>BSH Certificate No. 854, dated 2014-01-23;</b> <b>BlueTraker® LRIT and LRIT Arctic Mechanical and Electrical Installation Manual Rev. 1.0. Doc-ID 12134 (P/N: 11953)</b>
Remarks	<b>This certificate is issued on the basis of GL Guidelines for the Performance of Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007.</b>

Valid until **2019-07-31**

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File No. **I.E.03**

**Hamburg, 2014-08-01**

Type Approval Symbol



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