



NOTIFIED BODY
No 0191

CERTIFICATE OF TYPE APPROVAL

(EC Certificate of Type Examination - Module B)
(Marine Equipment Directive - 96/98/EC, as amended*1)

Applicant:-
McMurdo Ltd
Silver Point
Airport Service Road
Portsmouth, PO3 5PB
United Kingdom

Manufacturer:-
McMurdo Ltd
Silver Point
Airport Service Road
Portsmouth, PO3 5PB
United Kingdom

This is to certify that the applicant has submitted details of a:-

406 MHz EMERGENCY POSITION INDICATING RADIO BEACON (EPIRB)
(Commission Directive 2008/67/EC – Item A.1/5.6)

Of a type known and designated as:-

SAILOR SGE406-II

(Comprising component parts and having technical characteristics shown in schedule 1)

and that this has been tested and assessed, and when used in a combination of component parts as described in the attached schedules, is CERTIFIED as complying with:

IEC 61097-2 : 2002 “COSPAS-SARSAT Satellite EPIRBs operating on 406 MHz”
IEC 60945 : 2002 “General Requirements for marine equipment”

(being specifications for Technical Characteristics and Methods of Measurements, published by the International Electrotechnical Commission).

It is also RECOGNISED that the equipment conforms to performance standards not inferior to those adopted by the International Maritime Organisation, and which are contained in Resolution A810(19), (as amended by MSC 56(66) & MSC 120(74)), Resolution MSC/Circ 862 (as applicable) and the relevant parts of Resolution A694(17).

SIGNED:

R A Sharp

Authorised Signatory

DATE of ISSUE:

13th October 2009

DATE of EXPIRY :

12th October 2014

Certificate Number:

QQ-MED-17/09-02

EU/USCG Mutual Recognition Agreement
Council Decision 2004/425/EC

This category of equipment is not currently included in the MRA

This Certificate is Valid until expiry date shown, subject to the standard conditions of issue printed on page 4

McMudo Ltd are Module D registered with QinetiQ in accord with standard condition 3, ref Certificate DQAS-03/09-McM002

QinetiQ

Cody Technology Park
Ively Road, Farnborough
Hampshire. GU14 0LX

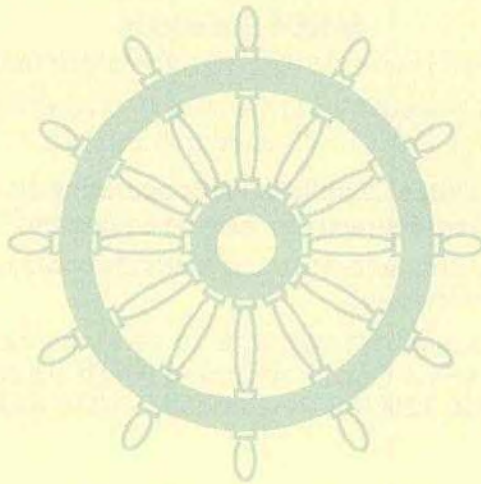


Maritime and Coastguard Agency
The MCA is an Executive Agency of
the Department for Transport

*1 Commission Directives 2008/67/EC, 2002/75/EC & 2002/84/EC

Under the terms of the United Kingdom Statutory Instrument, No 1957 : 1999, QinetiQ Ltd has been Notified to the European Commission by the Maritime and Coastguard Agency as a Body authorised to conduct Conformity Assessment procedures under the provisions of the European Council Directive 96/98/EC (as amended) on Marine Equipment and issue Certificates of Type Approval.

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Notified Body 0191

Certificate of Type Approval - Schedule 1

SAILOR SGE406-II, 406MHz Emergency Position Indicating Radio Beacon

The applicant declared that the following units comprise the GPS equipped EPIRB equipment of the system designation given on page 1. These units have been assessed & tested, and satisfactory details of these units were included in the technical file. These units form systems consistent with the Item Description A1/5.6, given in Annex A1 of Commission Directive 2008/67/EC.

MAIN UNITS Comprising:-

406MHz EPIRB Beacon		SAILOR SGE406-II	*1, 2
mounted in float-free Auto Housing		82-892	*3, 4, 5
or Manual Release Bracket		82-891	*6

----- End of List -----

***NOTES:-**

- 1 The **SAILOR SGE406-II** beacon unit is identical to the **McMurdo G5 SMARTFIND PLUS** EPIRB, approved under certificate number **QQ-MED-17/09-01**, dated 13th October 2009, except for **SAILOR** labels. This EPIRB has been tested and assessed to Class 2 temperature requirements.
- 2 These beacons have additionally been assessed to the requirements of **IMO A814(19)**, Annex clause 2.1 to 2.5.
- 3 When so mounted the **SGE406-II** beacon forms an automatic float free release EPIRB (Category 1). The Assembly of **SGE406-II** beacon and auto-housing is part number **82-801-002A**.
- 4 The float free release case assembly has been tested for correct hydrostatic release at temperatures of **-30°C** and **+70°C**.
- 5 The Float-free auto housing may be fitted with either **McMurdo 'BreakTHRU'** or **Hammar 'H20'** disposable Hydrostatic Release Units.
- 6 When so mounted the **E5** beacon forms a manual release, carry-off EPIRB (Category 2) complying with Annex 1 of **IMO Resolution A810(19)** except clause 2.2. Their installation on vessels may be restricted by administrations until the mandatory carriage requirements for Category 1 EPIRBs are satisfied. The Assembly of **SE406-II** beacon and manual bracket is part number **82-801-001A**.
- 7 Marine **COSPAS-SARSAT 406MHz** EPIRBs form a distress alerting component of the **Global Maritime Distress & Safety System (GMDSS)**. The **McMurdo G5/E5** series have been granted **COSPAS-SARSAT Type Approval** certification No.163, dated 23 August 2006.

Technical Characteristics

PARAMETER	PROVISION	COMMENT
FREQUENCY OF OPERATION	406.028MHz and 121.5MHz	TRANSMIT Only
EMISSION CODE	16K0G1D 3K20A3X	
POWER CHARACTERISTIC	5W 50mW	- 406.028MHz - 121.5MHz
GNSS Location Device fitted	Yes – Internal GPS module	Module tested to relevant tests of EN 61108-1 Average error, Static accuracy <100 metres.
TEMPERATURE RANGE Category 1 & Category 2	-20°C to +55°C.	- Class 2 Note: Hydrostatic release operation tested at -30°C and +70°C
POWER SOURCE	9V lithium Battery Pack (3 x Part no. 82-939)	48hour minimum battery life at -20°C. Label shows expiry date. Replacement only at manufacturer authorised service centre

Conditions of Issue of this certificate are printed on page 4.

QinetiQ
Cody Technology Park
Ively Road, Farnborough
Hampshire. GU14 0LX

Certificate Number **QQ-MED-17/09-02**

Certificates of Type Approval Conditions of Issue

1. Each Certificate will be used in its entirety and not reproduced in part.
2. This certificate remains valid until the date shown (normally 5 years) unless cancelled or revoked, provided:-
 - i) the design and manufacture remain unmodified from the specimen tested and recorded in the Technical Construction File;
 - ii) any conditions contained in the schedule are complied with;
 - iii) Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply;
 - iv) and, the equipment remains satisfactory in service.
3. The mark of conformity may only be affixed to the equipment listed on this certificate and a manufacturer's Declaration of Conformity issued when the production Quality Assurance requirements laid down in Annex B, of the Directive (96/98/EC) is fully complied with and controlled by a written inspection agreement with a Notified Body. The use of the QinetiQ Notified Body Number (0191) in combination with the Wheelmark implies that the manufacturer is Registered with the QinetiQ Quality Assurance Scheme. A Certificate of Registration is issued to the manufacturer and should be made available on request. The manufacturer is responsible for ensuring that certification renewal and periodic surveillance are maintained.
4. USCG Approval Number: A Mutual Recognition Agreement (MRA) on marine equipment exists between the European Commission and the US Coastguard but only applies to equipment types included in the listing of marine equipment annexed to the MRA. For included equipment a USCG Approval number may be issued and can be found under the MED certificate number on the first page and should be used on the main identity label of the equipment. Radio and Radar equipment continues to need separate or additional approval by the USA FCC.
5. This certificate does not confer any approval status to this equipment other than defined by, and tested according to the specifications listed on sheet 1.
6. The labeling requirements of IMO Resolution A694(17) shall be met. Descriptions of each unit of apparatus forming part of the equipment will be as given on this Certificate. Each unit of equipment will be marked with the minimum safe distance at which it should be mounted from a standard and steering magnetic compass.
7. No unit of apparatus shall be advertised or labeled as "approved" or "certified" on behalf of the Maritime and Coastguard Agency, the Department of Transport or the QinetiQ Group in any sense other than that it is a type that has been assessed as satisfactory against the specification;
8. The manufacturer must advise QinetiQ of any intended changes to the design or production of the equipment which might affect the equipment performance.
9. Minor Modifications to the equipment will be considered on a case-by-case basis. QinetiQ will review any factory test results, in consultation if necessary, with the test facility that conducted the original Type Approval testing on the equipment. QinetiQ will advise the manufacturer if any further testing is required to maintain valid certification.
10. If an equipment manufacturer wishes to have the type approved equipment designated under alternative names (e.g. agent/distributor's name and model number), a separate application should be completed and sent to QinetiQ.

QinetiQ Ltd
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