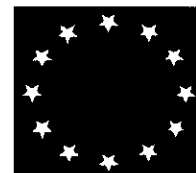


DERA



NOTIFIED BODY
No 0191

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND
CERTIFICATE OF TYPE APPROVAL
(EC Certificate of Type Examination - 96/98/EC Directive)

Applicant :-
McMurdo Ltd
Rodney Road, Fratton
Portsmouth
PO4 8SG

Manufacturer:-
McMurdo Ltd
Rodney Road, Fratton
Portsmouth
PO4 8SG

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

406 MHz EMERGENCY POSITIONING RADIO BEACON (ANNEX A1/5.6)

Of a system type known and designated as:-

PAINS WESSEX - SOS PRECISION 406 GPS EPIRB

(Comprising Component parts and having technical characteristics shown on sheet 2)

And that this has been tested and assessed and is CERTIFIED as complying with:

ETS 300-066 : 1996 "Maritime Satellite EPIRBs operating on 406.025MHz"

BS EN 60945 : 1997 "General Requirements for marine equipment" - EMC Clauses

(being specifications for Technical Characteristics and Methods of measurements, published by the European Telecommunications Standards Institute and the British Standards Institute).

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) and the relevant parts of Resolution A694(17).

The issue of this certificate grants approval for the time being under Section 84 of the Telecommunications Act 1984, the equipment described above, provided that it complies with the above specification at all times, for the purposes of UK licences granted under Section 1 of the Wireless Telegraphy Act 1949.

The conditions of issue of this certificate are printed on the attached schedule which forms an integral part of this certificate

SIGNED

S D Roylance

Approved Signatory

DATE

10 JUL 99

Certificate Number DERA-MED-18/00-02R

This Certificate is Valid for 5 Years from Date shown

DERA Fraser
Marine Type Approvals
Fort Cumberland Road, Eastney
Portsmouth, Hampshire. PO4 9LJ

Sheet 1 of 2



Maritime and Coastguard Agency

The MCA is an Executive Agency of the Department
of the Environment, Transport and the Regions

The Defence Evaluation and Research Agency has been Notified to the European Commission by the Maritime and Coastguard Agency as a Body authorised to conduct Type Examinations under the provisions of the European Council Directive 96/98/EC on Marine Equipment.

Certificate of Type Approval - Schedule of equipment

The applicant declared that the following units comprise the radio equipment of the designation given on page 1. These units have been assessed & tested, and satisfactory details of these units were included in the technical file.

MAIN UNIT assembly comprising:-

406MHz EPIRB Beacon ¹ mounted in Manual Release Bracket	82-514A	* ³
or 406MHz EPIRB Beacon ¹ mounted in Enclosed Manual Release Case	82-524A	* ³
or 406MHz EPIRB Beacon ¹ mounted in float-free Release Case (Pains-Wessex HRU or Hammar H20 Hydrostatic unit)	82-504A	* ⁴
----- End of List.		

NOTES:-

- 1 The **SOS PRECISION** beacon is a badge engineered variant of the McMurdo G4 unit has been granted Certificate No.119, by the COSPAS-SARSAT Organisation.
- 2 This beacon has additionally been assessed to the requirements of IMO A814(19), Annex clause 2.1 to 2.5.
- *3 These Units are approved as a manual release, carry-off EPIRB complying with Annex 1 of IMO Resolution A810(19) except clause 2.2. They may only therefore, be used in the GMDSS once the mandatory carriage requirements for Float Free, automatic EPIRBs have been satisfied.
- *4 The float free release case assembly has been tested for correct hydrostatic release at temperatures of -30°C and + 70°C.

Technical Characteristics

FREQUENCY OF OPERATION	TRANSMIT:	121.5MHz and 406.028MHz
	RECEIVE:	none
CHANNELS		1
GPS Location Device fitted	Yes	Module tested to relevant tests of EN 61108-1 Average error, Static accuracy <32 metres.
EMISSION CODE		3K20A3X 16K0G1D
DSC CLASS		none
TEMPERATURE RANGE (operational)		-20°C to +55°C - Class 2
POWER CHARACTERISTIC		121.5MHz - 50mW 406.028MHz - 5W

Conditions of Issue of this certificate are printed overleaf.

DERA Fraser
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Sheet 2 of 2

Certificate Number DERA-MED-18/00-02R