Certificate of Test EPIRB Hydrostatic Release

18/10/2006



Certificate number:

QINETIQ/D&TS/SES/TC0613291

Date of issue:

11

EMC Facility
QinetiQ Farnborough
Ively Road, Farnborough
Hampshire. GU14 0LX, UK
Telephone : 01252 394009

Facsimile : 01252 397058

Administrative Information

Customer: McMurdo Marine Ltd

File Reference Ref 06/189

Equipment under test: EPIRB in hydrostatic housing Build Standard: Declared as Production units

Test specifications: RTCM EPIRB Standard, Test A14.0 and

BS EN 61097-2: 2000 Clause 3.1.8 (IEC 61996-2)

Test Limits Float Free at between 1 & 4 metre depth

Test dates: 4 October 2006 & 6 October 2006

Modes of operation: EPIRB in standby condition

Test engineer: Nigel Vickers

Location of Testing: Building A50, QinetiQ Farnborough.

Test equipment used Centre for Human science's Plunge Pool. Water

temperature during testing, +27 degrees. EMC's Climatic chamber, Metal tape measure

Uncertainty of measurement Direct depth measurement ±5cm Temperature

±2°C

Test Item Details

Item No	Item	Туре	Notes	
1	McMurdo EPIRB Beacon	Smartfind G5	Also E5 (mechanically identical)	
2	McMurdo Hydrostatic Release	Breakthru HRU 8 x disposable release		

Test Summary

Test	Pre-condition	Position/Attitude of release	Clear release and EPIRB	Depth of	Result
	Temperature	housing during test.	float free?	release	
1	+70°C(Max	Vertical - Normal Attitude	Yes	3.0 M	Pass
2	Ambient	Vertical - Normal Attitude	Yes	3.0 M	Pass
3	Ambient	Rolling 90° to Port	Yes	3.1 M	Pass
4	Ambient	Vertical - Inverted (Upside	Slight agitation then	3.0 M	Pass
		down)	float free.		
5	Ambient	Rolling 90° to Starboard	Yes	2.7 M	Pass
6	Ambient	Horizontal Pitching Cover	Slight agitation then	3.0 M	Pass
		down	float free.		
7	Ambient	Horizontal –Pitching Cover up	Yes	3.0 M	Pass
8	-30°C(Min Stow)	Vertical – Normal Attitude	Yes	3.25 M	Pass

* BSEN 61097-2 Specifies +65°C but +70°C is acceptable as worst case.

Photographs of the EPIRB and test set-up can be found on the following pages.

IT IS CERTIFIED THAT THE TESTS DETAILED IN THIS CERTIFICATE HAVE BEEN CARRIED OUT AS SPECIFIED, WITH THE RESULTS AS SHOWN, TO THE REQUIREMENTS OF THE CONTRACT.

Signed (electronic) N.Vickers EMES Business Group , SES Farnborough

NVickers

Date 11th October 2006

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Photographs.



EPIRB mounted on the plunge pole ready test, Horizontal. - Pitching Cover down.



The release mechanism primed ready for the cover to be put on, McMurdo EPIRB Breakthru HRU release can be seen to the left and when hydrostatically triggered will cut through the black nylon post that holds the cover on. The coiled spring under the hinged release plate will then push up and away the G5 beacon. Note temporary HRU label due to new production at McMurdo, Portsmouth.

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Photographs (Continued).



Overall view of plunge pool and typical test set-up. (previous test)

Method of conduct of tests is to fix the EPIRB release housing onto the plunge pole in the required attitude, the pole would then be gently lowered into the plunge pool until release mechanism actuates and depth noted.