TYPE APPROVAL CERTIFICATE

For a 406 Megahertz Distress Beacon for use with the Cospas-Sarsat Satellite System

Certificate Number: 253

Manufacturer:	New Sunrise Co., Ltd., China (P.R.)
Beacon Type(s):	Float Free EPIRB
Beacon Model:	NSR NEB-1000
Test Laboratory:	Test Centre OMEGA
Date of Test:	July – November 2013

Details of the beacon features and battery type are provided overleaf.

The Cospas-Sarsat Council hereby certifies that the 406 MHz Distress Beacon Model identified above is compatible with the Cospas-Sarsat System as defined in documents:

C/S T.001	Specification for Cospas-Sarsat 406 MHz Distress Beacon Issue 3 – Revision 14, October 2013
C/S T.007	Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard Issue 4 – Revision 8, October 2013

TAC 253 issued on: 20 June 2014

Steven W. Lett
Head of Cospas-Sarsat Secretariat

NOTE, HOWEVER:

1. This certificate does not authorize the operation or sale of any 406 MHz distress beacon. Such authorization may require type acceptance by national administrations in countries where the beacon will be distributed, and may also be subject to national licensing requirements.

2. This certificate is intended only as a formal notification to the above identified manufacturer that the Cospas-Sarsat Council has determined, on the basis of test data of a beacon submitted by the manufacturer, that 406 MHz distress beacons of the type identified herein meet the standards for use with the Cospas-Sarsat System.

3. Although the manufacturer has formally stated that all beacons identified with the above model name(s) will meet the Cospas-Sarsat specification referenced above, this certificate is not a warranty and Cospas-Sarsat hereby expressly disclaims any and all liability arising out of or in connection with the issuance, use or misuse of the certificate.

4. This certificate is subject to revocation by the Cospas-Sarsat Council should the beacon type for which it is issued cease to meet the Cospas-Sarsat specification. A new certificate may be issued after satisfactory corrective action has been taken and correct performance demonstrated in accordance with the Cospas-Sarsat Type Approval Standard.

5. Cospas-Sarsat type approval testing requirements only address the electrical performance of the beacon at 406 MHz. Conformance of the beacon to operational and environmental requirements is the responsibility of national administrations.

Certificate Number: 253 **Dated: 20 June 2014**

Beacon Model: NSR NEB-1000

Manufacturer: New Sunrise Co., Ltd., China (P.R.)

Operating temperature range: -20°C to +55°C (Class 2)

Battery Details: Lithium-Thionyl Chloride (Li-$SOCl_2$), battery pack NSR P/N NBT300, 4 x D-size cells, Green Energy Battery Co., Ltd., , cell model: ER34615M,

Operating Lifetime: 48 hours

Transmit Frequency: 406.040 MHz

Beacon Model Features:

- 121.5 MHz auxiliary radio locating device (power: 16.0 - 19.54 dBm, duty cycle: 96%);
- Strobe light (brightness: > 1.0 cd, duty cycle: 20 flashes/minute);
- Message of long format;
- Self-test mode, one burst of 520 ms;
- Internal navigation device, u-blox GPS module model NEO-6M;
- Integrated antenna P/N NEA100;
- Automatic beacon activation (via water-sensor);
- Beacon was tested only in all EPIRB configurations, corresponding to beacon operating while floating in water, in a safety raft and above ground.

Approved Beacon Message Protocols: Beacon is approved for encoding with the message protocols indicated with "Yes" and black text below:

USER PROTOCOLS		USER-LOCATION PROTOCOLS		LOCATION PROTOCOLS	
No	Maritime with MMSI	**Yes**	**Maritime with MMSI**	**Yes**	**Standard Location: EPIRB with MMSI**
No	Maritime with Radio Call Sign	**Yes**	**Maritime with Radio Call Sign**	**Yes**	**Standard Location: EPIRB with Serial Number**
No	EPIRB Float Free with Serial Number	**Yes**	**EPIRB Float Free with Serial Number**	No	Standard Location: ELT with 24-bit Address
No	EPIRB Non Float Free with Serial Number	No	EPIRB Non Float Free with Serial Number	No	Standard Location: ELT with Aircraft Operator Designator
No	Radio Call Sign	No	Radio Call Sign	No	Standard Location: ELT with Serial Number
No	Aviation	No	Aviation	No	Standard Location: PLB with Serial Number
No	ELT with Serial Number	No	ELT with Serial Number	**Yes**	**National Location: EPIRB**
No	ELT with Aircraft Operator and Serial Number	No	ELT with Aircraft Operator and Serial Number	No	National Location: ELT
No	ELT with Aircraft 24-bit Address	No	ELT with Aircraft 24-bit Address	No	National Location: PLB
No	PLB with Serial Number	No	PLB with Serial Number		
No	National (Short Format Message)				
No	National (Long Format Message)				