

**INTERIM TYPE APPROVAL REQUIREMENTS
FOR 406 MHz PLB TESTING APPROVED AT THE 29TH SESSION OF THE
COSPAS-SARSAT COUNCIL**

For the purpose of Cospas-Sarsat type approval of 406 MHz PLBs, the following interim testing requirements are applicable prior to Council approval of the appropriate amendments to the document C/S T.007 “Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard”.

Existing C/S T.007 tests of antenna characteristics applicable to PLBs should be complemented by satellite qualitative tests as described below.

The satellite qualitative tests should be repeated twice*:

- a) with the PLB placed as shown in Figure B2a; and
- b) with the PLB placed on dry ground, in open space, without any blockage above 5° elevation angle for all azimuth angles.

The rate of successful reception for the two configurations should be consistent within 10% for at least two of every three satellite passes.

When the level of received signal measured by a SARP is available**, the average signal level for the dry ground configuration (b) should not be lower than 6 dB relative to configuration (a) for similar elevation angles within the range 10 to 50 degrees. In accordance with section A1, the uncertainty of measurement (- 3 dB) can be added to the reduction limit of 6 dB, as an extra margin.

Notes: * Satellite testing in configuration (a) may be performed by the beacon manufacturer. In both cases, (a) and (b), the tests should be supported by data provided by a Cospas-Sarsat MCC and a detailed test site description should be provided.

** The measured beacon signal level for every received burst should be recorded and reported together with the time of each burst and the corresponding elevation and azimuth angle for every considered path.

All references given as in C/S T.007, Issue 3 – Revision 9.