

APPENDIX 10

Type Approval Certificates: COSPAS-SARSAT T.001/T.007 Canada to NSS PLB-01 and RSS187 Australia ACA Radio STD No 1,1996

FCC ID: B66-ACR-PLB100

Type acceptance under Part 95 Subpart K

ACR ELECTRONICS INC
5757 Ravenswood Road
FT. Lauderdale Fl.
(954) 981-3333



DRAWN. Bill Cox	DATE. 4/9/2003	
CHECKED.	DATE.	
ENG Bill Cox	DATE. 4/9/2003	
APVD	DATE.	
A	18560	Cover Sheet

**Type
Certificates**

PLB-100

DRAWING NO
APPENDIX 10

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COSPAS-SARSAT TYPE APPROVAL CERTIFICATE

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

HEREAS, *ACR Electronics, Inc., of Florida, USA*, the manufacturer of a 406 Megahertz Distress Beacon packaged as a *PLB*, and identified as Model *PLB-100* has submitted test data and had said beacon tested in *April 1999* at a facility accepted by Cospas-Sarsat at *EPG, Fort Huachuca, USA* to demonstrate that said beacon meets the applicable technical requirements for use with the Cospas-Sarsat Satellite System, as defined in documents C/S T.001 "Specification for Cospas-Sarsat 406 MHz Distress Beacons" and C/S T.007 "Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard"*,

WHEREAS, the Cospas-Sarsat Council has determined, following a review of the test results, that the said beacon meets the Cospas-Sarsat Class 1 requirements and is rated for operating over the temperature range of -40°C to $+55^{\circ}\text{C}$, with battery:

Blue Star LS-2660
Lithium Sulphur Dioxide (LiSO₂, 3 5/4C-cells)

and

WHEREAS, said manufacturer has certified that all other units of the same type will meet said technical requirements in a similar manner to the unit subjected to test, which incorporated the following features:

- *121.5 MHz Auxiliary Radio Locating Device (50 mW, continuous)*
- *External navigation device (GPS)*
- *Self-test mode (one burst of 440 ms, format flag bit = "1")*

* *beacon is approved for use with Standard Location Protocol*

NOW, THEREFORE, in reliance upon the following, the Cospas-Sarsat Council does hereby certify that the 406 MHz Distress Beacon Model identified herein is compatible with the Cospas-Sarsat System as of the date of this Certificate.

Certificate No: *109*

Date: *29 April 1999*

Signed by:



D. Levesque

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. 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 this certificate.

3. 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 to the Cospas-Sarsat Type Approval Standard.



Radiocommunications Act 1992

Compliance Certificate

I, Peter Young, delegate of the Chairman of the ACA, for the purposes of subsection 184(1) of the Radiocommunications Act 1992 issue this certificate of compliance to:

RFD (Australia) Pty Ltd

129 Herald St

Cheltenham

certifying that the

GYP51 406 PLB

complies with the

requirements for 406MHz Satellite Distress Beacons

in accordance with the

*Australian Communications Authority
Radiocommunications Standard (406MHz Satellite Distress Beacons)
No. 1 of 1996*

Dated this Seventeenth day of January 2000

Peter Young

Delegate of the Chairman, ACA



RADIO EQUIPMENT CERTIFICATE OF TYPE APPROVAL

CERTIFICAT D'HOMOLOGATION DE MATÉRIEL RADIO

CERTIFICATION No. No. DE CERTIFICATION	➤	1322873103
ISSUED TO DÉLIVRÉ À	➤	ACR ELECTRONICS INC.
TYPE OF EQUIPMENT GENRE DE MATÉRIEL	➤	PERSONAL LOCATOR BEACON (PLB)
TRADE NAME AND MODEL MARQUE ET MODELE	➤	PLB-100
FREQUENCY RANGE BANDE DE FRÉQUENCES	➤	121.5 MHz AND 406.025 MHz
EMISSION DESIGNATION DESIGNATION D'ÉMISSION	➤	3K20A3X/4K00Q1DAN
R.F. POWER RATING PUISSANCE NOMINALE H.F.	➤	25 mWatt/ 5 Watts
CERTIFIED TO CERTIFIÉ SELON LE	➤	SPECIFICATION RSS187 CAHIER DES CHARGES ISSUE 3 ÉDITION

Certification of equipment means only that the equipment has met the requirements of the above noted specification. License applications, where applicable to use certified equipment, are acted on accordingly by the issuing office and will depend on the existing radio environment, service and location of operation.

This certificate is issued on condition that the holder complies and will continue to comply with the requirements of the radio standards specifications and procedures issued by the Department.

ISSUED UNDER THE AUTHORITY OF MINISTER OF INDUSTRY
DELIVRE AVEC L'AUTORISATION DU MINISTRE DES INDUSTRIE

DATE May 20, 1999

L'homologation de matériel terminal signifie seulement qu'il est conforme aux exigences du cahier des charges mentionné ci-dessus. Les demandes de licence, le cas échéant en vue de l'utilisation de matériel certifié seront traitées en conséquence par le bureau chargé de délivrer lesdites licences, en tenant compte du milieu radioélectrique ambiant, du service radio existant et de l'emplacement de la station.

Le présent certificat est délivré à condition que le détenteur se conforme et continue à se conformer aux cahiers des charges et procédures sur les normes radioélectriques publiées par le ministère.

FOR

DIRECTOR GENERAL
SPECTRUM
ENGINEERING
BRANCH

DIRECTEUR GÉNÉRAL
GÉNIE
DU SPECTRE

FACSIMILE MESSAGE

REF: CS00/087/P510(ACR)
TO: Mr B. Sherman, ACR Electronics, Inc. **Fax No:** +1 954 983 5087
FROM: Sergey Mikhailov, **Fax No:** +44-171-728-1170
Cospas-Sarsat Secretariat
DATE: 23 March, 2000 **No. of pages: (incl. this page)** 1
SUBJECT: Additional Protocol for 406 MHz Beacon Model PLB-100

Dear Mr Sherman,

I have the pleasure of informing you that the modification you made to the 406 MHz beacon model PLB-100 (additional protocol: National Location Protocol) as specified in your Change Notice Form dated 21 March 2000 has been accepted.

No change is to be made to the information on the Cospas-Sarsat Certificate itself. The existing Cospas-Sarsat Type Approval Certificate number 109 is also valid for the National Location Protocol, effective from 23 March 2000. The Cospas-Sarsat Secretariat will keep a record and distribute information on the approval of the additional protocol for PLB-100 to all Cospas-Sarsat MCCs.

The Secretariat remains at your disposal for any further assistance you may require.

Yours sincerely



Sergey Mikhailov
Technical Officer,
Cospas-Sarsat Secretariat