

## Appendix 11

REVISIONS			
Revision Level	Approval	Date	Description
-			
A			Released Per ECO

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



DRAWN. Bill Cox	3/1/2003	
CHECKED.		
ENG Bill Cox	3/1/2003	
APVD		
A	18560	Sheet 1
SIZE	CODE IDENT NO	Of 3

**Compliance Matrix  
 For RTCM ver 1.1  
 406 MHz Satellite  
 PLBs  
 June 2002**

DRAWING NO  
**RTCM PLB-100**

REV  
 A

## **COMPLIANCE STATEMENT**

This report contains the test data and appendices that show that the PLB-100 has met the RTCM Version 1.1, June 2002 specifications for a Category 1 406 MHz Personnel Locator Beacon. These test were done by a Coast Guard and Cospas-Sarsat approved laboratories.

The data from these laboratories listed below concludes that the following compliance matrix met the specification along with Coast Guard Letter Appendix 9 , stating there review prior to adding the Morse P to the home signal that the unit met the requirements. FCC testing in Appendix 11 shows compliance to the Morse P request of the RTCM as per part 95 subpart K of CFR 47.

### **Attached Compliance Testing Reports**

- 1.) Appendix 7 - QC metallurgical labs Report 1
- 2.) Appendix 8 - QC metallurgical labs Report 2
- 3.) Appendix 6 - COSPAS-SARSAT compliance test report for T.001& T.007, Ft. Huachuca, Az.
- 4.) Appendix 9 - Coast Guard Letter on Testing report approval.
- 5.) Appendix 11– Addendum Test Report to RTCM Standard for 406 Satellite PLB Version 1.1

<b><u>RTCM Compliance Matrix</u></b>	<b><u>Pass/Fail</u></b>	<b><u>Data</u></b>
<b>RTCM A1.0 General Test Conditions</b>	<b>Passed</b>	Appendix 7 section 2.0
<b>RTCM A2.0 Sequence of Test</b>	<b>Passed</b>	Appendix 7 See Summary
<b>RTCM A3.0 Vibration Test</b>	<b>Passed</b>	Appendix 7 section A6.0
<b>RTCM A4.0 Bump Test</b>	<b>Passed</b>	Appendix 7 section A4.0
<b>RTCM A5.0 Salt Fog Test</b>	<b>Passed</b>	Appendix 7 section A5.0
<b>RTCM A6.0 Drop Test</b>	<b>Passed</b>	Appendix 7 section A8.0
<b>RTCM A7.0 Leakage and Immersion</b>	<b>Passed</b>	Appendix 7 section A7.0
<b>RTCM A8.0 Spurious Emissions</b>	<b>Passed</b>	Appendix 7 section A8.0 Appendix 8 section A9.0
<b>RTCM A9.0 Cospas Sarsat Test</b>	<b>Passed</b>	Appendix 8 section A9.0
<b>RTCM A10.0 Operational &amp; Self Test</b>	<b>Passed</b>	Appendix 7 section A10
<b>RTCM A10.2 Self Test</b>	<b>Passed</b>	Appendix 6 section A21

**ACR ELECTRONICS INC.**

CODE IDENT  
NO  
18560

SHEET  
-2-

TEST PROCEDURE  
**RTCM Ver 1.1 PLB-100**

REV  
A

<b>RTCM A11.0 Buoyancy Test</b>	<b>Passed</b>	Appendix 8 section A11
<b>RTCM A12.0 121.5 MHz Auxiliary radio-Locating Device Transmitter Test</b>		
<b>RTCM A12.1 Carrier Frequency test</b>	<b>Passed</b>	Appendix 2 section A9.1
<b>RTCM A12.2 Modulation Characteristics</b>	<b>Passed</b>	Appendix 2 section A9.4
<b>RTCM A12.3 Peak Equiv. Radiated Power</b>	<b>Passed</b>	Appendix 2 section A9.0
<b>RTCM A12.3.1 Radiated</b>	<b>Passed</b>	Appendix 2 section A9.0
<b>RTCM A12.3.2 Method Of measurement</b>	<b>Passed</b>	Appendix 2 section A9.0
<b>RTCM ADDENDUM FOR MORSE P</b>	<b>Passed</b>	Appendix 12

The ACR Electronics Model PLB meeting all the above specification we ask for a grant of equipment authorization under Title 47 of the FCC rules Part 95 – Personal Radio Service 95.1402 Special requirements for 406 PLBs.

FCC Rule	Frequency Range	Output Watts	Freq Tolerance	Emission
95.1402	121.5 MHZ	.05	0.005%	3K20A3X
95.1402	121.5 MHZ	.05	0.005%	2K00A2A
95.1402	406 MHZ	5.0	0.0005%	16K0G1D

**Bill Cox**  
**Electronics Engineer II**  
**ACR Electronics Inc.**  
**5757 Ravenswood Rd.**  
**Ft. Lauderdale, Fl. 33312**  
**bcox@acrelectronics.com**  
**(954) 981-3333 EXT. 123**  
**(954) 983-5087 FAX**

<b>ACR ELECTRONICS INC.</b>	CODE IDENT NO 18560	SHEET -3-	TEST PROCEDURE <b>RTCM Ver 1.1 PLB-100</b>	REV A
-----------------------------	---------------------------	--------------	---	----------