

**QTP – QTR
for ELT model
ADT 406 AF/AP**

Référence : 02E66225

Révision : A

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DOCUMENT REVISION

Révision <i>Issue</i>	Nom de l'émetteur <i>Name</i>	Description de l'évolution <i>Revision description</i>	Date <i>date</i>
A	CRESP	Creation (BPE)	03/09/02

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1. SUBJECT

The purpose of this document is to supply the French Airworthiness Authority (DGAC) with the relevant data needed to perform the approval process of the ELT model ADT 406 AF/AP manufactured by ELTA, F6614.

It includes Tests results performed in accordance with the EUROCAE ED-62 standard used as Qualification Tests Procedures (QTP).

Basic electrical and RF tests were performed internally at ELTA premises, Blagnac France.

COSPAS-SARSAT type approval tests and environmental tests were performed in approved laboratory :

- INTESPACE, approved COSPAS-SARSAT test laboratory located in Toulouse France for the Cospas-Sarsat aspects (operation on 406.028 MHz),
 - EMITECH, located closed to Paris, for the EMI/RFI & 500g/4 ms Shocks,
 - ETBS, a military test laboratory located in Bourges, France, for the environmental tests,
 - MECANO-ID, located in Toulouse France, for vibration & G-Switch activation level tests.
- Detailed laboratory tests reports are included in appendixes.

2. APPLICABLE DOCUMENT

- Ref. 1: C/S T.001, Specification for Cospas-Sarsat 406 MHz Distress Beacons, Issue 3 - Revision 3, with Corrigendum 1, dated October 1999,
- Ref. 2: C/S T.007, Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard, Issue 3 - Revision 8, dated October 2001,
- Ref. 3: EUROCAE ED-62, issue May 1990,
- Ref. 4: ED-14D/RTCA DO-160D issue July 1997,
- Ref. 5: ED-12B/RTCA DO-178B issue December 1992,
- Ref. 6: RTCA DO-183, Issue May 1983, for information only,
- Ref. 7: RTCA DO-204, issue September 1989 for information only.

Note: EUROCAE ED-62 refers to (includes) C/S T001 and RTCA DO-160C applicable specification issued in 1990. For this qualification process we apply the latest available issue for these documents see Ref. here above.

3. APPLICABILITY

This equipment is designed for installation in any aircraft including commercial/General aviation aircraft and helicopters.

It is an **E**mergency **L**ocator **T**ransmitter (ELT)

11.APPENDIX LIST

APPENDIX 1: CONFIGURATION FILE, P/N 01P67003 REV. C
APPENDIX 2: CERTIFICATION TEST BENCH (DESCRIPTION)
APPENDIX 3: COSPAS-SARSAT TYPE APPROVAL # 131
APPENDIX 4: COSPAS-SARSAT TEST REPORT REF. M3433
APPENDIX 5: EMITECH TEST REPORT REF. RM-01-10448/AC/SB (EMI/RFI)
APPENDIX 6: EMITECH TEST REPORT REF. RQ-02-60040/SD/AG (SHOCKS)
APPENDIX 7: EMITECH TEST REPORT REF. RM-01-10814/FC/CVH (EMI/RFI)
APPENDIX 8: EMITECH TEST REPORT REF. RM-02-10249/PL/NR (EMI/RFI)
APPENDIX 9: ETBS TEST REPORT REF. N°108 (ENVIRONMENTAL)
APPENDIX 10: ETBS TEST REPORT REF. N°1 (FLAME)
APPENDIX 11 : EMITECH TEST REPORT REF. RQ-02-60486/SD/EB (SHOCKS)
APPENDIX 12: COSPAS-SARSAT TEST REPORT REF. M4156
APPENDIX 13: COSPAS-SARSAT TEST REPORT REF. M4158 ED62 (POST CRASH IMMERSION)
APPENDIX 14: RADIO FREQUENCY INTERMODULATION
APPENDIX 15: TEST SHEET ON 10 PRE-PRODUCTION ADT
APPENDIX 16: 2624-82 CHELTON ANTENNA RADIATED PATTERN
APPENDIX 17: EVOLUTIONS DURING QUALIFICATION PROCESS
APPENDIX 18: MECANO-ID TEST REPORT REF. MID-ELT-212-PVE-005 (VIBRATION & G-SWITCH ACTIVATION)