



Electronics for Harsh Environments

**FEDERAL COMMUNICATION COMMISSION
445 12TH STREET, SW
WASHINGTON, DC 20554
USA**

Blagnac, on December 12th, 2005

V/Réf. :
N/Réf. : 05B68737
P.J. :

SIÈGE SOCIAL :

14, place Marcel Dassault
B.P. 48
31702 BLAGNAC Cedex
France

ELTA Grantee Code: LYJ

ELTA contact : C. CRESP, c.cresp@elta.fr

SUBJECT : Tests report & test setup photo of our ELT models ADT 406 S
(Request for Equipment notification)

Tél. : +33 (0)5 34 36 10 00

Fax : +33 (0)5 34 36 10 01

www.elta.fr

Dear Sir,

Our new Emergency Locator Transmitter (ELT) model ADT 406 S is the Survival model of our ADT406 ELT family.

Test report is part of the TSO & ETSO approval process.

We will submit here under only the tests related to RF aspects of the ELT. All the environmental tests can be consulted in our premises at any time upon request.

This equipment (ELT) is an aeronautic application and test requirements are described in DO-160D environmental tests standard. This standard is much more harder than the basic telecommunication requirement (EMI & RFI especially).

A compliance matrix is given in our "Declaration of Design and Performances" documents. (see DDP document 05E63754 in Exhibit 7)

Test reports are called out in the following documents:

- 05E63772, ETSO Qualification Data Package & 05E67763 TSO Qualification Data Package for the ELT model ADT 406 S.

Note: The Test report ref 05E63096 is the same for both ETSO & TSO application.

Detail are given here after

C. CRESP
Product Support Manager

CEIS TM, ENERSYS, CITA
et ELFES ELECTRONIQUES
sont des marques
de ELTA S.A.

S.A. au capital de 2 600 000 €
R.C.S Toulouse 92 B 1746
SIREN 388 919 177
Code A.P.E. 322 A
T.V.A. FR 27 388 919 177



**TSO C91a & C126
QUALIFICATION DATA
PACKAGE for
ELT model ADT 406 S**

Référence 05E67763 Révision : A

ORIGINAL EN ROUGE

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E. LABRIFFE 	J. CHESSE 	T. PORTES 	20 / 10 / 2005
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A	E. LABRIFFE	Creation (HPE)	oct 20 th 05

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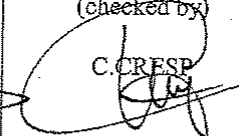


**ETSO 2C91a & 2C126
QUALIFICATION DATA
PACKAGE for
ELT model ADT 406 S**

Référence 05E63772

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**QTP – QTR
for ELT model
ADT 406 S**

Référence 05E63096

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A	E.LABRIFFE	Creation (BPE)	31/05/05
B	E.LABRIFFE	Add type approval number (n°153) and updating antenna tests	21/09/05

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1. SUBJECT

The purpose of this document is to supply the European Aviation Safety Agency (EASA) with the relevant data needed to perform the approval process of the ELT model ADT 406 S 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,
- 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 and 50g/11 ms Shocks.

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 5, with Corrigendum 1, dated October 2003,
- Ref. 2: C/S T.007, Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard, Issue 3 - Revision 11, dated October 2004,
- 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

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