


EASA	NOTIFICATION OF A PROPOSAL TO ISSUE AN AIRWORTHINESS DIRECTIVE
	<p>PAD No.: 11-042</p> <p>Date: 19 April 2011</p> <p>Note: This Proposed Airworthiness Directive (PAD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.</p>
<p>In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below. All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation closing date indicated.</p>	
<p>Approval Holder's Name :</p> <p>Chelton Limited</p>	<p>Type/Model designation(s) :</p> <p>P/N 21-41 () series Tri-Band ELT antennas</p>
Approval Number :	United Kingdom National Equipment Approval, issued under Paragraph 5.3 of CAP553, BCAR Section A, Chapter A4-8..
Foreign AD :	Not applicable
Supersedure :	None
ATA 25	Equipment / Furnishings – Emergency Locator Transmitter (ELT) Antenna – Modification / Replacement
Manufacturer(s):	Chelton Limited (trading as Cobham Antenna Systems), formerly Chelton (Electrostatics) Limited.
Applicability:	<p>Tri-Band ELT antennas, Part Number (P/N) 21-41 () series, all serial numbers (s/n) up to 12999 inclusive, which are used in combination with a large variety of ELT units; see also Note below.</p> <p>The affected antennas are known to be installed on, but not limited to, Eurocopter (formerly Eurocopter France, Aerospatiale) AS 350, EC 155 and AS 332 series helicopters. It is also possible that the antenna is installed on fixed wing aircraft.</p> <p>Note: For the definition of ELT, refer to the types of ELT in EUROCAE ED-62A paragraph 1.2 or in RTCA DO-204 paragraph 2.1. The definition includes all four basic types: ELT (AF) - Automatic Fixed, ELT (AP) - Automatic Portable, ELT (S) - Survival, and ELT (AD) - Automatic Deployable.</p>
Reason:	<p>Analysis has shown that there is a potential for electrostatic charge build up on the outside surface of the Chelton P/N 21-41 antenna. When connected with an ELT, this electrostatic charge can be conducted via the radiating element to the transceiver. In such a case, the ELT could not function as intended. Although these events have been observed on these antennas when fitted to KANNAD 406 ELT installations, it can likely occur when the antenna is fitted to another ELT unit.</p> <p>This condition, if not detected and corrected, could adversely affect the survivability of aircraft occupants during an actual emergency situation.</p>

	For the reasons described above, this AD requires repetitive pre-flight testing of the ELT unit interconnected with the antenna, modification of the affected antenna or replacement with a modified unit, and a post-modification test to ensure the airworthy condition of the onboard ELT installation.
Effective Date:	[TBD: 14 days after Final AD issue date]
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <ol style="list-style-type: none"> (1) Within 3 days after the effective date of this AD and thereafter before each first flight of the day, perform a self-test of the ELT unit interconnected with the P/N 21-41 series antenna, in accordance with the instructions of the ELT manufacturer. This self-test can be performed by the flight crew as part of the normal pre-flight checks. (2) If, during any of the tests as required by paragraph (1) of this AD, the installation fails the test, before next flight, modify the P/N 21-41 series antenna in accordance with the instructions of Chelton Ltd SB 02/2011 Issue 1, or replace the antenna with a modified P/N 21-41 series antenna, or with a P/N 21-41 series antenna with a s/n of 13000 or higher. <p>Note: A modified P/N 21-41 series antenna exhibits an extended black heatshrink protective cap on the tip of the antenna. See Figure 1 in Chelton Ltd SB 02/2011 Issue 1.</p> <ol style="list-style-type: none"> (3) Within 6 months after the effective date of this AD, unless already accomplished as required by paragraph (2) of this AD, modify the P/N 21-41 series antenna in accordance with the instructions of Chelton Ltd SB 02/2011 Issue 1, or replace the antenna with a modified P/N 21-41 series antenna, or with a P/N 21-41 series antenna with a s/n of 13000 or higher. (4) Before next flight after modification or replacement of the P/N 21-41 series antenna as required by paragraph (2) or paragraph (3) of this AD, as applicable, perform a self-test of the ELT unit interconnected with the P/N 21-41 series antenna, in accordance with the instructions of the ELT manufacturer. This self-test can be performed by the flight crew as part of the normal pre-flight checks. If the installation fails the post-modification self-test, replace the ELT unit with a serviceable unit and repeat the self-test until the installation passes the test. (5) When an installation on an aircraft passes the self-test as required by paragraph (4) of this AD, that constitutes terminating action for the repetitive self-tests as required by paragraph (1) of this AD for that aircraft. (6) From the effective date of this AD, do not install an affected P/N 21-41 series antenna with a s/n below 13000 on an aircraft, unless it has been modified in accordance with the instructions of Chelton Ltd SB 02/2011 Issue 1.
Ref. Publications:	<p>Chelton Limited (trading as Cobham Antenna Systems) SB 02/2011 Issue 1 dated 18 April 2011.</p> <p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p>
Remarks :	<ol style="list-style-type: none"> 1. This Proposed AD will be closed for consultation on 17 May 2011. 2. Enquiries regarding this PAD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail ADs@easa.europa.eu. 3. For any question concerning the technical content of the requirements in this PAD, please contact:

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