


<b>EASA</b>	<b>AIRWORTHINESS DIRECTIVE</b>
	<p><b>AD No.: 2009-0162</b></p> <p><b>Date: 28 July 2009</b></p> <p>Note: This Airworthiness Directive (AD) 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>This AD is issued in accordance with EC 1702/2003, Part 21A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].</p>	
<p><b>Type Approval Holder's Name :</b></p> <p>EUROCOPTER</p>	<p><b>Type/Model designation(s) :</b></p> <p>AS 332 helicopters</p>
<p>TCDS Number : EASA.R.002</p>	
<p>Foreign AD : Not applicable</p>	
<p>Supersedure : None</p>	
<b>ATA 25</b>	<b>Equipment / Furnishings – Life-rafts Inflation Control System – Check / Replacement / Repair</b>
<p>Manufacturer(s): EUROCOPTER (formerly EUROCOPTER FRANCE, AEROSPATIALE)</p>	
Applicability:	AS 332 C, AS 332 C1, AS 332 L and AS 332 L1 helicopters, all serial numbers, if equipped with life-rafts P/N 245533-0, 245534-0, 219235-0, 219236-0, 204359-1, 204359-2, 205379-5, 205379-6, 204360-1, 204360-2, 205380-5 or 205380-6.
Reason:	<p>During overhaul of one of the life-rafts (i.e. sponson-mounted optional kit) on an AS 332 L1 helicopter, it has been reported that the life-raft inflation cylinder was empty and that there was a leak at the frangible disc of the cylinder. It has been further reported that the helicopter electrical harness dedicated to the inflation control system of the life-rafts had signs of deterioration.</p> <p>The technical analysis has shown that residual current in the electrical harness of the life-raft inflation control system causes damage to the life-raft inflation cylinder frangible disc, which explains the progressive pressure drop in the cylinder. This condition, if not corrected, might lead to life-rafts deployment unavailability in case of emergency ditching, possibly preventing the occupants to escape safely from the helicopter.</p> <p>For the reasons described above, this AD requires the check of the life-rafts inflation control system and, depending on findings, repair and/or replacement action(s).</p>
Effective Date:	03 August 2009

<p>Required Action(s) and Compliance Time(s):</p>	<p>Required as indicated, unless accomplished previously:</p> <ol style="list-style-type: none"> <li>(1) Within the next 110 flight hours or one month, whichever occurs first after the effective date of this AD, check the electrical resistance of each life-raft inflation cylinder frangible disc and test the electrical harnesses insulation of the life-raft inflation control system in accordance with the instructions of paragraphs 2.B.1, 2.B.2 and 2.B.3 of Eurocopter AS332 Alert Service Bulletin (ASB) No. 25.02.11.</li> <li>(2) If any electrical harness insulation test result is non-compliant, before the next flight requiring operation with the life-rafts aboard, accomplish the following actions: <ol style="list-style-type: none"> <li>(2.1) Repair the non-compliant harness in accordance with an approved repair solution, and</li> <li>(2.2) Replace the corresponding life-raft in accordance with the instructions of paragraph 2.B.5 of Eurocopter AS332 ASB No. 25.02.11.</li> </ol> </li> <li>(3) If any life-raft inflation cylinder frangible disc resistance value is non-compliant, before the next flight requiring operation with the life-rafts aboard, replace the corresponding life-raft in accordance with the instructions of paragraph 2.B.5 of Eurocopter AS332 ASB No. 25.02.11.</li> <li>(4) If the electrical harness and/or the life-raft cannot be repaired or replaced (e.g. due to lack of available spare units), before the next flight requiring operation with the life-rafts aboard, install a placard on the instrument panel, in accordance with the instructions of paragraph 2.B.4 of Eurocopter AS332 ASB No. 25.02.11, stating the following: <p style="text-align: center;"><b>THE USE OF THE SPONSON-MOUNTED LIFE RAFTS IS PROHIBITED</b></p> <p>After accomplishment of the required replacement(s), as applicable, the placard may be removed from the helicopter.</p> </li> </ol>
<p>Ref. Publications:</p>	<p>EUROCOPTER AS332 Alert Service Bulletin No. 25.02.11 dated 15 July 2009.</p> <p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p>
<p>Remarks :</p>	<ol style="list-style-type: none"> <li>1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.</li> <li>2. The required actions and the risk allowance have granted the issuance of a Final AD with Request for Comments, postponing the public consultation process after publication.</li> <li>3. Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management &amp; Research Section, Certification Directorate, EASA. E-mail <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a>.</li> <li>4. For any question concerning the technical content of the requirements in this AD, please contact: EUROCOPTER (STDI) – Aéroport de Marseille Provence 13725 Marignane Cedex – France Telephone +33 (0)4 42 85 97 97, Fax +33 (0)4 42 85 99 66 E-mail: <a href="mailto:Directive.technical-support@eurocopter.com">Directive.technical-support@eurocopter.com</a>.</li> </ol>