


<b>EASA</b>	<b>EMERGENCY AIRWORTHINESS DIRECTIVE</b>
	<p><b>AD No.: 2009-0179-E</b></p> <p><b>Date: 11 August 2009</b></p> <p>Note: This Emergency 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 Holders' Names :</b></p> <p>Agusta S.p.A, Eurocopter,</p> <p>Eurocopter Deutschland GmbH, Sikorsky Aircraft Corporation</p>	<p><b>Type/Model designations:</b></p> <p>A109 series and AB139/AW139 AS332, AS350 and AS355 series EC225, SA365, AS365 and EC155 series EC135 and MBB-BK 117 S-61 helicopters</p>
<p>TCDS Numbers : EASA R.002, R.005, R.006, R.008, R.009, R.010 and R.146, DGAC France No. 159, FAA U.S.A. 1H15.</p>	
<p>Foreign AD : Not applicable</p>	
<p>Supersedure : This AD supersedes EASA AD 2009-0179-E, dated 09 July 2009</p>	
<p><b>ATA 25</b></p>	<p><b>Equipment/Fittings : D-Lok Hook of the Rescue Hoist – Inspection / Removal from Service / Replacement</b></p>
<p>Manufacturers:</p>	<p>Agusta S.p.A, Agusta Aerospace Corporation, American Eurocopter LLC, Eurocopter (formerly Eurocopter France), Eurocopter Deutschland GmbH, Eurocopter ESPANA S.A., Sikorsky Aircraft Corporation.</p>
<p>Applicability:</p>	<p>Agusta S.p.A model A109 series and AB139/AW139 helicopters , <u>and</u> Eurocopter model AS332, AS350, AS355, SA365, AS365 and EC155 series and EC225 LP helicopters, <u>and</u> Eurocopter Deutschland GmbH model EC135 and MBB-BK 117 helicopters, <u>and</u> Sikorsky Aircraft Corporation S-61N helicopters, all serial numbers, if equipped with Lifesaving Systems D-Lok Hooks with part numbers (P/N) 410-A or 410-F and identified as part of lot number 208 or 1108.  Note: the rescue hoist P/N provided in the service information of the rescue hoist system manufacturers (Goodrich or Breeze-Eastern) is for information only. Refer to Lifesaving Systems D-Lok Hooks P/N to determine AD applicability.</p>

Reason:	<p>Field reports from rescue hoist operators have noted surface irregularities and discontinuities on D-Lok Hooks supplied by Lifesaving Systems with P/N 410-A and 410-F. It was determined that a non-approved change in the hook manufacturing process, from forged material to cast material, is the cause of the irregularities and discontinuities found in the material.</p> <p>This condition, if left uncorrected, could lead to the fracture of the hook. Furthermore, the new manufacturing process has not been shown to be compliant with the applicable regulations.</p> <p>EASA AD 2009-0124 was issued as an emergency measure to mandate visual inspection and replacement, as applicable, of D-Lok Hooks supplied by Lifesaving System with P/N 410-A and 410-F and installed on certain Goodrich Corporation hook kits or rescue hoist assemblies.</p> <p>It has been later discovered that the same Lifesaving Systems D-Lok Hooks P/N are also installed on Breeze-Eastern Corporation rescue hoist assemblies.</p> <p>EASA AD 2009-0148-E, which superseded EASA AD 2009-0124, required inspection of Goodrich and Breeze-Eastern rescue hoist assemblies and, if the affected D-Lok Hooks were found installed, their removal from service or replacement with serviceable parts.</p> <p>This AD, superseding EASA AD 2009-0148-E and keeping its requirements, reduces the AD applicability and requires returning the cast hooks to Goodrich or Breeze-Eastern, as applicable, after removal.</p>
Effective Date:	12 August 2009
Required Action(s) and Compliance Time(s):	<p>Required as indicated unless previously accomplished.</p> <p>(1) Before the next hoist operation carried out after 11 July 2009 (effective date of EASA AD 2009-0148-E) inspect the rescue hoist assembly and, if a Lifesaving Systems D-Lok Hook with P/N 410-A or 410-F and identified as part of lot number 208 or 1108 (cast hook) is found installed, perform a visual inspection in accordance with the applicable instructions of the rescue hoist system manufacturer (Goodrich or Breeze-Eastern), depending on the helicopter type. If the hook does not pass the visual inspection, any further operation using the hook is prohibited. The inspections and relevant corrective actions carried out, before 11 July 2009 (effective date of EASA AD 2009-0148-E), in accordance with paragraph (2) or (3) of EASA AD 2009-0124 are acceptable to comply with paragraph (1) of this AD.</p> <p>Note: Only the visual inspection criteria of the referenced Goodrich and Breeze-Eastern publications are applicable. Required Actions and Compliance Times are as described in this AD section.</p> <p>(2) After the effective date of this AD replace the cast hook with a serviceable part to continue hoist operations and return the removed parts to Goodrich or Breeze-Eastern, as applicable.</p> <p>(3) After 11 July 2009 (effective date of EASA AD 2009-0148-E), do not install a D-Lok Hook with P/N 410-A or 410-F and identified as part of lot number 208 or 1108 on any helicopter.</p>
Ref. Publications:	<p>Goodrich Service Bulletin 42315-489-01 revision 1,</p> <p>Breeze-Eastern Corporation Service Information Letter SIL01 BLH-20200-431 original release,</p> <p>Breeze-Eastern Corporation Service Bulletin SB BLH-20200-504-25-01 original release,</p> <p>Breeze-Eastern Corporation Service Information Letter SIL01 HK-116-5 original release.</p>

Remarks:	<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 safety assessment has requested not to implement the full consultation process and an immediate publication and notification.</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:             Goodrich Corporation , Sensors and Integrated Systems            1550 S. Valley Vista Drive, Diamond Bar, California            United States of America            Tel: +1 909 569-0210 ; Fax: +1 909 569-0387.             Goodrich Corporation , Sensors and Integrated Systems            Saint-Ouen l'Aumône            13 Avenue de l'Eguillette BP 7186            Cergy-Pontoise, Val d'Oise 95056 - France            Tel: +33 (0) 1 3432 6781 ; Fax: +33 (0) 1 3432 6323.             Breeze-Eastern Corporation            700 Liberty Avenue            Union, New Jersey 07083-8198 USA            Ph.: +1 (908) 686-4000, Ext. 97 for 3-80.            1-800-929-1919 (Toll-Free US and Canada only)            Fax: +1 (908) 688-6005            E-Mail: <a href="mailto:customerservice@breeze-eastern.com">customerservice@breeze-eastern.com</a> </li> </ol>
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