


EASA	PROPOSED AIRWORTHINESS DIRECTIVE	
	AD No: 2005-XXXX PAD No: 05-008 Issued/Date: dd.mm.yyyy	
<p>This AD is issued by EASA representing the States of Registry for the affected aircraft.</p> <p>No person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive unless otherwise agreed with the Authority of the State of Registry.</p>		
Type Approval Holder's Name Robinson Helicopter Company		Type/Model designation(s) R22/ All models
FAA TCDS H10WE		
Foreign Ad No.: None		
First Issue		

	ATA 62/10 – Rotor Blades - Replacement
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Manufacturer(s):	Robinson Helicopter Company
Applicability:	Title: Main Rotor Blades R22 Applicability: Robinson R-22, R22 ALPHA, R22 BETA, R22 MARINER, certificated in any category, equipped with Rotor blades P/N A016-2
Reason:	<p>Several cases of blade failure of Main Rotor Blades with P/N A016-2 have occurred. Two accidents were fatal.</p> <p>These blade failures were caused by fatigue cracks. Investigation showed that at least two of these blade failures were initiated by internal corrosion of the blades. There are no inspection methods available for a non-destructive testing of the main rotor blades to discover this corrosion and the beginning of cracks.</p> <p>(Other fatigue cracks have been caused by overload of the rotor by exceedance of limitations for manifold pressure.)</p> <p>A fatigue crack if not discovered in time leads to an increase in vibration level due to a lack of stiffness in the rotor blade. The crack length increases within short periods of time and finally the blade failure causes partial loss</p>

	<p>of the blade and thereby loss of aircraft control.</p> <p>According to the above described situation the manufacturer Robinson Helicopter Company released the related Service Bulletin SB-94 dated 14 December 2004. This Service Bulletin introduces the Times of Compliance, Spare Parts and Working Procedures for the replacement of P/N A016-2. This SB-94 has not been mandated by the FAA as there were no related findings within the USA reported. However EASA requires compliance with SB-94 to mandate the replacement.</p> <p>The replacement blades with P/N A016-4 have an improved corrosion resistance and an improved service life.</p>
Effective Date:	TBA
Compliance:	<p>A016-2 blades S/N 12000 and prior: by 01.07.2005</p> <p>All remaining A016-2 blades: by 01.12.2005</p>
Ref. Publications:	<p>R22 Service Bulletin SB-94, dated 14.12.2004, see Appendix 1 to this AD</p> <p>Robinson Helicopter Company 2901 Airport Drive Torrance California 90505 USA</p>
Remarks:	<p>This PAD was posted for consultation on 22 March 2005.</p> <p>Comments are requested by e-mail to Mr. M. Mazzoletti, EASA Manager Rotorcraft, Balloons and Airships Unit, Certification Directorate: Massimo.Mazzoletti@easa.eu.int on or before 1st May 2005. For questions concerning R22 Service Bulletin SB-94, contact Robinson Helicopter Company, address as listed above.</p> <p>European Aviation Safety Agency Postfach 101253 D-50452 Köln, Germany</p>