



Civil Aviation Authority

EMERGENCY MANDATORY PERMIT DIRECTIVE



Number: 2011-006-E

Issue date: 12 July 2011

In accordance with 22(1) of Air Navigation Order 2009 as amended the following action required by this Mandatory Permit Directive (MPD) is mandatory for applicable aircraft registered in the United Kingdom operating on a UK CAA Permit to Fly.

Type Approval Holder's Name:

Rotorsport UK Ltd.

Type/Model Designation(s):

Rotorsport UK MT-03, MTOSport and Calidus gyroplanes

Title:

Rotor Blade – Life Limit

Manufacturer:

Rotorsport UK Ltd.

Applicability:

All UK registered Rotorsport UK Ltd. MT-03, MTOSport and Calidus gyroplanes with rotor blade part numbers:

Aircopter 8.4m blade (MT Series) – part number RSD7033

Autogyro 8.4m blade (MT series) - part number RSD7040

Autogyro 8m blade (MT Series) – part number RSD7139

Autogyro 8.4m (Calidus) blade – part number C.RK20 (BG1448)

Reason:

The CAA has been advised that cracks, bends and evidence of fretting have been found in the rotor blades (Aircopter type) of a Rotorsport UK Ltd MT-03 gyroplane. Further investigation by Rotorsport UK Ltd. has found cracks, bends and evidence of fretting on non-UK registered MT-03 and MTOSport gyroplanes fitted with both Aircopter and Autogyro type rotor blades.

Cracks and bends in the rotor blades may result in loss of a rotor blade and consequent loss of a gyroplane.

This MPD supersedes MPD 2010-008 R1 and has been raised following further investigation and fatigue assessment of the rotor blade design and introduces a life of 700 hours for the following rotor blade part numbers

Aircopter 8.4m blade (MT series) – part number RSD7033

Autogyro 8.4m blade (MT series) - part number RSD7040

Autogyro 8m blade (MT series) – part number RSD7139

Autogyro 8.4m (Calidus) blade – part number C.RK20 (BG1448)

Operation with the above rotor blade types above 700 hours is not permitted.

Reason Cont:	This MPD also removes the requirement for 100 hour inspections of the rotor blades for cracking and fretting. The blade straightness check from SB034 issue 3 has been transferred to the applicable maintenance schedules.	
Effective Date:	12 July 2011	
Compliance/Action:	<p>1) Within 10 flight hours from the effective date of this MPD, establish the operating hours for each rotor blade.</p> <p>2) If the operating hours for a rotor blade exceed 700 hours, before further flight, replace the rotor blade with an airworthy approved blade.</p> <p>Note: The compliance actions required by paragraph 2 above must be carried out by a BCAR A3-7 type authorised person and entered into the airframe logbook accordingly.</p>	
ENSURE COMPLIANCE WITH THIS MPD IS RECORDED IN THE AIRCRAFT LOGBOOK		
Reference Publications:	N/A	
Remarks:	<p>1. This MPD was not published for consultation due the urgency of the situation.</p> <p>2. Enquiries regarding this MPD should be referred to Airworthiness Evaluation and Surveillance, Civil Aviation Authority, Safety Regulation Group, Aviation House, Gatwick Airport South, West Sussex, RH6 0YR, United Kingdom.</p>	
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