



Airworthiness Directive

AD No.: 2017-0092R1

Issued: 13 June 2018

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) 216/2008 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 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 [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EC) 216/2008, Article 14(4) exemption].

Design Approval Holder's Name:

SOCIÉTÉ DUC (t/a DUC Hélices Propellers)

Type/Model designation(s):

H-FLR2 (FLAIR-2) propellers

Effective Date: Revision 1: 13 June 2018
Original issue: 23 May 2017

TCDS Number(s): EASA.P.037

Foreign AD: Not applicable

Revision: This AD revises EASA Emergency AD 2017-0092-E issued on 19 May 2017.

ATA 61 – Propellers – Removal from Service / Modification

Manufacturer(s):

SOCIÉTÉ DUC (trading as DUC Hélices Propellers)

Applicability:

H-FLR2_5-D-I_C propellers, all serial numbers.

These propellers are known to be installed on, but not limited to, CEAPR (formerly Centre Est Aéronautique, Avions Pierre Robin, Robin Aviation, Constructions Aéronautiques de Bourgogne, APEX Industries, Robin Aircraft) DR 300/180 R, DR 400/180, DR 400/180 R and DR 400/180 S aeroplanes, if modified by EASA STC 10059338.

Reason:

An occurrence was reported on a DUC 'FLAIR-2' propeller where, during take-off, the aluminium hub ruptured and one blade was released.

This condition, if not corrected, could lead to further hub failures and blade losses, possibly resulting in reduced control of the aeroplane and injury to persons on the ground.

To address this potential unsafe condition, DUC Hélices Propellers published Bulletin de Service (BS) BS-2017-001 Revision A, to notify the owners and operators of the affected aeroplanes.



For the reason described above, as an interim action, EASA issued Emergency AD 2017-0092-E to require removal from service of the affected propellers.

Since that AD was issued, DUC developed a modification of the propeller hub and published Revision B of BS-2017-001 to provide modification instructions. Accomplishment of this modification allows an affected propeller to be returned to service.

This AD is revised accordingly, including reference to the revised BS-2017-001.

Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

- (1) From 23 May 2017 [the effective date of the original issue of this AD], remove the propeller from service in accordance with the instructions of DUC Propellers BS-2017-01 Revision A.
- (2) From 23 May 2017 [the effective date of the original issue of this AD], do not install on any aeroplane a DUC H-FLR2_5-D-I_C propeller, unless it is modified in accordance with the instructions of DUC Propellers BS-2017-001 Revision B.

Ref. Publications:

DUC Propellers BS-2017-001 Revision A, dated 17 May 2017, or Revision B dated 09 April 2018.

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the [EU aviation safety reporting system](#).
5. For any question concerning the technical content of the requirements in this AD, please contact: DUC Propellers, Aerodrome de Villefranche-Tarare, 289 avenue Odette & Edouard Durand, 69620 Frontenas France, Tel: +33(0)4 74 72 12 69, Fax: +33(0)4 74 72 10 01, E-mail: contact@duc-helices.com.

