



Notification of a Proposal to issue an Airworthiness Directive

PAD No.: 18-154

Issued: 09 November 2018

Note: This Proposed Airworthiness Directive (PAD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below.

All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation date indicated.

Design Approval Holder's Name:

SAFRAN HELICOPTER ENGINES

Type/Model designation(s):

ARRIEL 2 engines

Effective Date: [TBD – standard: 14 days after AD issue date]

TCDS Number(s): EASA.E.001

Foreign AD: Not applicable

Supersedure: None

ATA 05 – Time Limits / Maintenance Checks – Airworthiness Limitations Section – Amendment

Manufacturer(s):

SAFRAN Helicopter Engines (SAFRAN), S.A., formerly Turboméca, S.A.

Applicability:

ARRIEL 2D, ARRIEL 2E and ARRIEL 2N engines, all serial numbers.

These engines are known to be installed on Airbus Helicopters (formerly Eurocopter, Eurocopter France, Aerospatiale) AS 350 B3 (H125), EC 130 T2 (H130), and Airbus Helicopters Deutschland GmbH MBB-BK117 D-2 (EC 145 T2 or H145) helicopters.

Definitions:

For the purpose of this AD, the following definitions apply:

The applicable ALS: Chapter 05-10 of SAFRAN ARRIEL 2D Maintenance Manual (MM) reference (ref.) X292 R1 450 2 and Chapter 05-10 of Overhaul Manual ref. X 292 R1 500 2, both issue 16 and both dated 30 June 2018, Chapter 05-10 of ARRIEL 2E MM ref. X292 R2 300 2 issue 12 dated 30 June 2018, and Chapter 05-10 of ARRIEL 2N MM ref. X292 N2 450 2 issue 7 dated 30 June 2018, as applicable.



Reason:

The airworthiness limitations and maintenance tasks for the SAFRAN ARRIEL 2D, ARRIEL 2E and ARRIEL 2N engines, which are approved by EASA, are currently defined and published in the SAFRAN ARRIEL 2 Maintenance and Overhaul Manuals, as applicable. These instructions have been identified as mandatory for continued airworthiness.

Failure to accomplish these instructions could result in an unsafe condition.

SAFRAN recently revised the applicable Maintenance and Overhaul Manuals (the applicable ALS), introducing new and/or more restrictive airworthiness limitations and maintenance tasks.

For the reason described above, this AD requires accomplishment of the actions specified in the applicable ALS.

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

Required as indicated, unless accomplished previously:

Maintenance Tasks and Replacement of Life Limited Parts:

- (1) From the effective date of this AD, accomplish the following actions, as specified in the applicable ALS, as applicable to engine configuration:

- (1.1) Replace each component before exceeding the applicable life limit, and

- (1.2) Within the thresholds and intervals accomplish all applicable maintenance tasks.

Corrective Action(s):

- (2) In case of finding discrepancies (as defined in the applicable ALS) during accomplishment of any task as required by paragraph (1) of this AD, within the compliance time specified in the applicable ALS, accomplish the applicable corrective action(s) in accordance with SAFRAN approved maintenance documentation. If no compliance time is identified in the applicable ALS, accomplish the applicable corrective action(s) before next flight. If a detected discrepancy is not identified in the applicable ALS, before next flight, contact SAFRAN for approved instructions and accomplish those instructions accordingly.

Aircraft Maintenance Programme (AMP) Revision:

- (3) Within 12 months after the effective date of this AD, revise the approved AMP, on the basis of which the operator or the owner ensures the continuing airworthiness of each operated helicopter, by incorporating the limitations, tasks and associated thresholds and intervals described in the applicable ALS, as applicable to engine configuration.

Credit:

- (4) For an AMP that, on the effective date of this AD, is already updated to incorporate the maintenance tasks and life limitations as specified in the Chapter 05-10 of SAFRAN ARRIEL 2D MM X292 R1 450 2 and Chapter 05-10 of Overhaul Manual ref. X 292 R1 500 2, both issue 15 and both dated 30 November 2017, Chapter 05-10 of ARRIEL 2E MM ref. X292 R2 300 2 issue 11 dated 30 November 2017 or Chapter 05-10 of ARRIEL 2N MM ref. X292 N2 450 2 issue 6 dated



30 November 2017, as applicable, that action ensures (see Note 1 of this AD) the continued accomplishment of those tasks and limitations.

Consequently, for a helicopter to which that AMP applies, it is acceptable to accomplish the new and more restrictive tasks and limitations, as applicable to engine configuration, as defined in, and within the compliance times as specified in, the applicable ALS, to comply with paragraph (1) of this AD.

For that AMP, it is acceptable to incorporate the new and more restrictive tasks and limitations, as applicable to engine model and configuration, as defined in the applicable ALS, into the AMP to comply with paragraph (3) of this AD.

Recording AD compliance:

- (5) When the AMP of a helicopter has been revised as required by paragraph (3) or (4) of this AD, as applicable, that action ensures (see Note 1 of this AD) continued accomplishment of the tasks as required by paragraphs (1) and (2) of this AD for that engine. Consequently, after revising the AMP, as required by paragraph (3) or (4) of this AD, as applicable, it is not necessary that accomplishment of individual actions are recorded for demonstration of AD compliance on a continued basis.

Note 1: For affected ARRIEL 2 engines installed on helicopters registered in Europe, complying with the approved AMP, as specified in paragraph (3) or (4) of this AD, as applicable, is required by Commission Regulation (EU) [1321/2014](#), Part M.A.301, paragraph 3.

Ref. Publications:

SAFRAN ARRIEL 2D Chapter 05-10 of MM ref. X292 R1 450 2 and Chapter 05-10 of Overhaul Manual X 292 R1 500 2, both issue 15 and both dated 30 November 2017; and both issue 16 and both dated 30 June 2018.

SAFRAN ARRIEL 2E Chapter 05-10 of MM ref. X292 R2 300 2 issue 11 dated 30 November 2017 and issue 12 dated 30 June 2018.

SAFRAN ARRIEL 2N Chapter 05-10 of MM ref. X292 N2 450 2 issue 6 dated 30 November 2017 and issue 7 dated 30 June 2018.

The use of later approved variations or revisions of above-mentioned documents is acceptable for compliance with the requirements of this AD.

Remarks:

1. This Proposed AD will be closed for consultation on 07 December 2018.
2. Enquiries regarding this PAD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
3. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this PAD, and which may occur, or have occurred on a product, part or appliance not affected by this PAD, can be reported to the [EU aviation safety reporting system](#).



4. For any question concerning the technical content of the requirements in this PAD, please contact your nearest SAFRAN Helicopter Engines technical representative or connect to www.tools.safran-helicopter-engines.com.

