



## Notification of a Proposal to issue an Airworthiness Directive

**PAD No.: 21-013**

**Issued: 02 February 2021**

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:**

CFM INTERNATIONAL S.A.

**Type/Model designation(s):**

LEAP-1A engines

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

**TCDS Number(s):** EASA.E.110

**Foreign AD:** Not applicable

**Supersedure:** None

### ATA 72 – Engine – High Pressure Turbine Case – Replacement

#### Manufacturer(s):

SAFRAN Aircraft Engines, formerly SNECMA (France); General Electric Aviation (United States)

#### Applicability:

LEAP-1A23, LEAP-1A24, LEAP-1A24E1, LEAP-1A26, LEAP-1A26CJ, LEAP-1A26E1, LEAP-1A29, LEAP-1A29CJ, LEAP-1A30, LEAP-1A32, LEAP-1A33, LEAP-1A33B2 and LEAP-1A35A engines, all serial numbers (s/n).

These engines are known to be installed on, but not limited to, certain Airbus A319, A320 and A321 aeroplanes.

#### Definitions:

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

**The SB:** CFM International (CFM) Service Bulletin (SB) LEAP-1A-72-00-0421-01A-930A-D.

**Affected HPT Case:** A High Pressure Turbine (HPT) case, having Part Number 2668M94G01 and having at least one HPT case port casting s/n as listed in Table 1 of this AD.



**Serviceable HPT Case:** An HPT case which is not an affected HPT case.

**Reason:**

It has been determined that certain HPT cases have been manufactured with defects on port castings, which could reduce the life of the HPT case.

This condition, if not corrected, could lead to failure of the HPT case, possibly resulting in high energy debris release, with consequent damage to, and reduced control of the aeroplane.

To address this potential unsafe condition, CFM issued the SB to provide instructions for parts identification and replacement.

For the reason described above, this AD requires the early replacement of the affected HPT cases. This AD also prohibits (re)installation of the affected HPT cases.

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

Required as indicated, unless accomplished previously:

**Replacement:**

- (1) Before exceeding the cycles since new (CSN) as specified in Table 1 of this AD, remove from service each affected HPT case and replace it with a serviceable HPT case in accordance with the instructions of the SB.

Table 1 – HPT Case Replacement (see Note 1 of this AD)

HPT Case Port Casting s/n	Compliance Time
FHYR3776 and FHYY6973	9 000 CSN
FHYL6295 and FHYP7240	11 000 CSN
FHYR3403 and GNF00703	12 000 CSN
FHYR2561 and FHYR2578	13 000 CSN

Note 1: The CSN specified in Table 1 of this AD are those accumulated by the HPT case since its first installation on an engine.

**Parts Installation:**

- (2) From the effective date of this AD, it is allowed to install a HPT case on any engine, provided it is a serviceable HPT case, as defined in this AD.

**Ref. Publications:**

CFM SB LEAP-1A-72-00-0421-01A-930A-D original issue (001) dated 22 October 2020.

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

**Remarks:**

1. This Proposed AD will be closed for consultation on 02 March 2021.



2. Enquiries regarding this PAD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: [ADs@easa.europa.eu](mailto: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](#). This may include reporting on the same or similar components, other than those covered by the design to which this PAD applies, if the same unsafe condition can exist or may develop on an aircraft with those components installed. Such components may be installed under an FAA Parts Manufacturer Approval (PMA), Supplemental Type Certificate (STC) or other modification.
4. For any question concerning the technical content of the requirements in this PAD, please contact: CFM International S.A., Customer Support Centre, Telephone: +33 1 64 14 88 66, Fax: +33 1 64 79 85 55, E-mail: [cfm.csc@safrangroup.com](mailto:cfm.csc@safrangroup.com),

or

CFM Inc. Aviation Operations Centre, Telephone: +1 513-552-3272, or +1 877-432-3272, Fax: +1 877-432-3329, E-mail: [geae.aoc@ge.com](mailto:geae.aoc@ge.com), or [aviation.fleetsupport@ge.com](mailto:aviation.fleetsupport@ge.com).

