



Airworthiness Directive

AD No.: 2018-0201

Issued: 07 September 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:

AIRBUS

Type/Model designation(s):

A340 aeroplanes

Effective Date: 21 September 2018

TCDS Numbers: EASA.A.015

Foreign AD: Not applicable

Supersedure: None

ATA 28 – Fuel – Fuel Control and Monitoring Computer – Software Update

Manufacturer(s):

Airbus (formerly Airbus Industrie)

Applicability:

Airbus A340-213, A340-311 and A340-313 aeroplanes, manufacturer serial numbers (MSN) 0002, 0056, 0114, 0164, 0204, 0214, 0257, 0280, 0282, 0292, 0381, 0424, 0435, 0450, 0467, 0470 and 0554.

Definitions:

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

The SB: Airbus Service Bulletin (SB) A340-28-4128.

Affected FCMC: Fuel Control and Monitoring Computer (FCMC), having a software standard lower than 'Stage 12'.

Note 1: It is expected that the affected FCMC are equipped with software standard having Part Number (P/N) B494AAM0615 (Stage 10.0 - installation of that standard was required by DGAC France AD 2002-623(B)) or P/N B494AAM0616 (Stage 11.0).



Serviceable FCMC: FCMC, having a software standard 'Stage 12', P/N B494AAM0617, or higher standard.

Reason:

An occurrence was reported concerning an A340 aeroplane having to divert, following #3 engine in-flight shut-down (IFSD), due to fuel starvation. The analysis concluded that this fuel starvation was due to aeroplane operation in high and positive pitch for an extended period of time, followed by delayed crew action resulting in a delayed 'Fuel Low Level' indication, and also leading to the depletion of the Collector Cells (CC).

This condition, if not corrected, could lead to multiple engines IFSD, possibly resulting in reduced control of the aeroplane.

To address this potential unsafe condition, Airbus published the SB, providing instructions to install an upgraded FCMC standard 'Stage 12' software, which includes a 'FUEL CELL NOT FULL' (CC depletion warning) for all CC. Airbus identified the batch of aeroplanes that still have the affected FCMC software.

For the reasons described above, this AD requires installation of an FCMC software upgrade.

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

Required as indicated, unless accomplished previously:

Modification:

- (1) Within 6 months after the effective date of this AD, install FCMC standard 'Stage 12' software and re-identify the FCMC, or replace the affected FCMC (hardware) with a serviceable FCMC, in accordance with the instructions of the SB.

Parts installation:

- (2) After modification of an aeroplane as required by paragraph (1) of this AD, do not install an affected FCMC on that aeroplane.

Ref. Publications:

Airbus A340-28-4128 original issue dated 25 May 2011.

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

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. This Proposed AD will be closed for consultation on 02 July 2018.
2. This AD was posted on 04 June 2018 as PAD 18-077 for consultation until 02 July 2018. The Comment Response Document can be found in the [EASA Safety Publications Tool](#), in the compressed (zipped) file attached to the record for this AD.



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: AIRBUS – EIAL (Airworthiness Office), E-mail: airworthiness.A330-A340@airbus.com.

