



Notification of a Proposal to issue and Airworthiness Directive

PAD No.: 18-105

Issued: 24 July 2018

Note: This Proposed Airworthiness Directive (PAD) 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.

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:

AIRBUS

Type/Model designation(s):

A380 aeroplanes

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

TCDS Number(s): EASA.A.110

Foreign AD: Not applicable

Supersedure: This AD supersedes EASA AD 2017-0182 dated 19 September 2017.

ATA 28 – Fuel – Fuel Pumps / Outboard Collector Cell Jet Pump – Inspection

Manufacturer(s):

Airbus

Applicability:

Airbus A380-841, A380-842 and A380-861 aeroplanes, all manufacturer serial numbers.

Definitions:

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

The SB: Airbus Service Bulletin (SB) A380-28-8069.

Affected part: Outboard collector cell jet pumps, having Part Number (P/N) 38-0008, and manufactured before week 33, year 2015. The first four digits of the serial number (s/n) of an affected part indicates the date of manufacture: e.g. s/n 3215XXXX was manufactured in week 32, year 2015.

Serviceable part: Any outboard collector cell jet pump, not being an affected part.



Groups: Group 1 aeroplanes are those that have an affected part installed. Group 2 aeroplanes are those that do not have an affected part installed.

Reason:

Occurrences were reported where, during tank entry, the glue joint of the outboard collector cell jet pump (between the jet pump body and the outlet pipe) was found to have failed and the two sections of the jet pump were no longer mechanically linked. Investigation results indicated that this failure was due to improper preparation of the bonding surfaces during assembly, resulting in a decreased strength of the joint. The review also identified the batch of jet pumps affected by this manufacturing deficiency.

This condition, if not detected and corrected, could create, in case of lightning strike, an ignition source inside the fuel tank vapour space, possibly resulting in a fuel tank explosion and consequent loss of the aeroplane.

To address this potential unsafe condition, Airbus issued Alert Operators Transmission (AOT) A28R005-17 to provide a test procedure to verify the integrity of the collector cell jet pumps. Consequently, EASA issued AD 2017-0182 to require a one-time functional check of the affected outboard collector cell jet pumps and, depending on findings, accomplishment of applicable corrective action(s).

Since that AD was issued, Airbus issued the SB to provide instructions for repetitive special detailed inspections (SDI) of the affected parts.

For the reasons described above, this AD supersedes EASA AD 2017-0182, and requires repetitive SDI of the affected parts and, depending on findings, accomplishment of further inspection(s) and applicable corrective action(s).

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

Required as indicated, unless accomplished previously:

Inspection(s):

- (1) For Group 1 aeroplanes: Within 6 months after the effective date of this AD, and, thereafter, at intervals not to exceed 6 months, accomplish an SDI of each affected part in accordance with the instructions of the SB.
- (2) If, during any SDI as required by paragraph (1) of this AD, any discrepancy is detected, within 3 months after that SDI, accomplish a general visual inspection (GVI) of the affected part in accordance with the instructions of the SB.

Corrective Action(s):

- (3) If, during any GVI as required by paragraph (2) of this AD, the affected part is not found detached, within 6 months after that GVI, continue the repetitive SDI as required by paragraph (1) of this AD, or before next flight, replace the affected part with a serviceable part in accordance with the instructions of the SB.



- (4) If, during any GVI as required by paragraph (2) of this AD, detachment of an affected part is found, but no damage of the surrounding tank structure, before next flight, replace the detached affected part with a serviceable part in accordance with the instructions of the SB.
- (5) If, during any GVI as required by paragraph (2) of this AD, detachment of an affected part is found, including damage of the surrounding tank structure, before next flight, accomplish concurrently the actions as required by paragraphs (5.1) and (5.2) of this AD, in accordance with the instructions of the SB.

(5.1) Replace the detached affected part with a serviceable part.

(5.2) Contact Airbus for approved corrective action instructions and, within the compliance time specified therein, accomplish those instructions accordingly.

Parts installation:

- (6) Do not install on any aeroplane an affected part, as required by paragraph (6.1) or (6.2) of this AD, as applicable.
 - (6.1) For Group 1 aeroplanes: After replacement of all affected parts in accordance with the instructions of the SB.
 - (6.2) For Group 2 aeroplanes: From the effective date of this AD.

Terminating Action:

- (7) Replacement of all affected parts on an aeroplane, as required by paragraph (3), (4), or (5) of this AD, as applicable, constitutes terminating action for the repetitive SDI as required by paragraph (1) of this AD for that aeroplane.

Reporting:

- (8) Within 30 days after accomplishment of any GVI as required by paragraph (2) of this AD, report the inspection results (including no findings) to Airbus. Using the instructions of the SB is an acceptable method to comply with this reporting requirement.

Ref. Publications:

Airbus SB A380-28-8069 original issue dated 04 July 2018.

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 21 August 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: AIRBUS - EIANA (Airworthiness Office), Telephone: +33 562 110 253; Fax: +33 562 110 307, E-mail: account.airworth-A380@airbus.com.

