



Notification of a Proposal to issue an Airworthiness Directive

PAD No.: 18-023

Issued: 14 February 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 AD issue date]

TCDS Number(s): EASA.A.110

Foreign AD: Not applicable

Supersedure: None

ATA 36 – Pneumatic – Overheat Detection System / Insulation Mufflers – Modification / Replacement

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) A380-36-8022, SB A380-36-8026 and SB A380-36-8030 (at any revision).

Affected parts: Bleed air insulation mufflers and sleeves, installed in the wings/pylons (inner-inner and inner-outer fixed leading edges) and on certain pneumatic tubing located in the nose and centre fuselage, having a Part Number (P/N) identified as "Old" in the applicable SB.

Groups: Group 1 aeroplanes are those that have affected parts installed. Group 2 aeroplanes are those that do not have affected parts installed. An aeroplane that embodies Airbus production



modification (mod) 74820, mod 75111 and mod 75112 is a Group 2 aeroplane, provided that the aeroplane remains in that configuration.

Reason:

During inspection of the A380 overheat detection system, incorrect installation of insulation mufflers was found, causing interference between the insulation muffler and the overheat detection system's sensing elements. In addition, cases were detected of incorrect orientation of venting holes.

This condition, if not detected and corrected, could lead to increased thermal load on surrounding structural elements, possibly reducing the structural integrity of the aeroplane.

To address this potential unsafe condition, Airbus developed production mod 75111 and mod 75112, and mod 74820, introducing, respectively, improved bleed air insulation mufflers for the wings (pylons, inner-inner and inner-outer fixed leading edges), and for pneumatic tubing located in the nose and central fuselage, and published the applicable SB accordingly, to provide modification instructions for in-service aeroplanes.

For the reasons described above, this AD requires modification of the bleed air overheat detection system, replacing the affected parts with improved bleed air insulation mufflers and sleeves. This AD also prohibits the (re-)installation of affected parts.

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

Required as indicated, unless accomplished previously:

Modification:

- (1) For Group 1 aeroplanes: Within 24 months after the effective date of this AD, modify the aeroplane by replacing each affected part in accordance with the instructions of the applicable SB.

Parts Installation:

- (2) Do not install an affected part on an aeroplane, as required by paragraph (2.1) or (2.2) of this AD, as applicable.
 - (2.1) For Group 1 aeroplanes: After modification of the aeroplane as required by paragraph (1) of this AD.
 - (2.2) For Group 2 aeroplanes: From the effective date of this AD.

Ref. Publications:

Airbus SB A380-36-8022 original issue dated 31 May 2017.

Airbus SB A380-36-8030 Revision 01 dated 31 May 2017, or Revision 02 dated 20 October 2017.

Airbus SB A380-36-8026 original issue dated 05 January 2018.



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

Remarks:

1. This Proposed AD will be closed for consultation on 14 March 2018.
2. Enquiries regarding this PAD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
3. For any question concerning the technical content of the requirements in this PAD, please contact: AIRBUS SAS - EIANA (Airworthiness Office), Telephone: +33 562 110 253; Fax: +33 562 110 307, E-mail: account.airworth-A380@airbus.com.

