



# Notification of a Proposal to issue an Airworthiness Directive

**PAD No.: 19-051R1**

**Issued: 05 April 2019**

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:**

AIRBUS

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

Airbus aeroplanes (see Applicability)

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

**TCDS Number(s):** EASA.A.004, EASA.A.014, EASA.A.015, EASA.A.064 and EASA.A.172

**Foreign AD:** Not applicable

**Supersedure:** None

## ATA 35 – Oxygen – Crew and Passenger Oxygen Cylinders – Inspection / Replacement

**Manufacturer(s):**

Airbus, formerly Airbus Industrie

**Applicability:**

Airbus A300, A300-600 and A310 aeroplanes, all certified models, all manufacturer serial numbers (MSN);

Airbus A300F4-608ST aeroplanes, all MSN;

Airbus A318, A319, A320 and A321 aeroplanes, all certified models, all MSN;

Airbus A330 aeroplanes, all certified models except A330-223F and A330-243F, all MSN; and

Airbus A340 aeroplanes, all certified models, all MSN.

**Definitions:**

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

**All certified models:** This includes all models (of a type design) certified before the date of issuance of this AD.



**Affected part:** Oxygen cylinders, having Part Number (P/N) 89794077, P/N 89794015, P/N 891511-14, P/N 806835-01, P/N 807206-01, P/N 807982-01, or P/N 808433-01, and having a serial number (s/n) as listed in the Appendix of the applicable SB, except those that passed an inspection (marked with blue dot) in accordance with the instructions of the applicable AOT or the applicable SB.

**Serviceable part:** Oxygen cylinders which are not an affected part.

**The applicable SB:** SAFRAN (AVOX Systems, Inc.) Service Bulletin (SB) 10015804-35-01 and SB 10015804-35-02, as applicable to P/N.

**The applicable AOT:** Airbus Alert Operators Transmission (AOT) A35W014-19 (A300/A310), AOT A35L013-19 (A330/A340) and AOT A35N012-19 (A318 thru A321), as applicable, which refer for accomplishment instructions to the applicable SB.

**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:

Several occurrences were reported of a cylinder and hand valve with oxygen leakage from the valve assembly vent hole. The technical investigation identified that an internal part (guide) was not assembled onto the stem. It was determined that a batch of oxygen cylinders produced in 2018 is potentially affected by this manufacturing discrepancy.

This condition, if not detected and corrected, could lead to reducing the available oxygen capacity of the aeroplane, possibly resulting in injury to aeroplane occupants following a depressurization event. In addition, there is a possibility of ignition/fire in-flight in case of an open hand valve assembly failure, depending on installation zone, or ignition/fire during system ground testing following (re)installation on an aeroplane, possibly resulting in injury to aeroplane occupants or maintenance staff, respectively.

To address this potential unsafe condition, Airbus issue the applicable AOT to provide inspection instructions.

For the reasons described above, this AD requires a one-time inspection of each affected part and, depending on findings, replacement with a serviceable part. This AD also prohibits (re)installation of an affected part on an aeroplane.

This PAD is revised as it was confirmed that the affected parts are also eligible for installation on A300F4-608ST aeroplanes. The Applicability has been amended accordingly.

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

Required as indicated, unless accomplished previously:



**Inspection(s):**

- (1) Group 1 aeroplanes: Before any maintenance action on an affected cylinder, or within 60 days, whichever occurs first after the effective date of this AD, inspect the hand valve of each affected part in accordance with the instructions of the applicable AOT and the applicable SB.

**Corrective Action(s):**

- (2) If, during the inspection as required by paragraph (1) of this AD, an affected part does not meet the criteria as defined in the applicable AOT and the applicable SB, before next flight, or before (re)installation, as applicable, empty that cylinder and replace it with a serviceable cylinder in accordance with the instructions of the applicable SB.

**Parts Installation:**

- (3) For Group 1 and Group 2 aeroplanes: From the effective date of this AD, do not install an affected part on any aeroplane.

**Ref. Publications:**

Airbus AOT A35W014-19 original issue dated 06 March 2019.

Airbus AOT A35L013-19 original issue dated 06 March 2019.

Airbus AOT A35N012-19 original issue dated 06 March 2019.

SAFRAN / AVOX Systems, Inc. SB 10015804-35-01 original issue dated 06 March 2019.

SAFRAN / AVOX Systems, Inc. SB 10015804-35-02 original issue dated 16 January 2019.

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 12 April 2019.
2. Enquiries regarding this PAD should be referred to the EASA Programming and Continued Airworthiness 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](#).
4. For any question concerning the technical content of the requirements in this PAD, please contact AIRBUS, as specified below:  
 EIAW Airworthiness Office E-mail: [continued.airworthiness-wb.external@airbus.com](mailto:continued.airworthiness-wb.external@airbus.com);  
 EIAS Airworthiness Office E-mail: [account.airworth-eas@airbus.com](mailto:account.airworth-eas@airbus.com);  
 EIAL Airworthiness Office E-mail: [airworthiness.A330-A340@airbus.com](mailto:airworthiness.A330-A340@airbus.com).

