



Airworthiness Directive

AD No.: 2019-0111

Issued: 21 May 2019

Note: This Airworthiness Directive (AD) 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.

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 (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

ATR-GIE AVIONS de TRANSPORT RÉGIONAL

Type/Model designation(s):

ATR 42 and ATR 72 aeroplanes

Effective Date: 04 June 2019

TCDS Number(s): EASA.A.084

Foreign AD: Not applicable

Supersedure: None

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

Manufacturer(s):

ATR-GIE Avions de Transport Régional, formerly EADS ATR - Alenia, Aerospatiale Matra ATR - ALENIA, Aerospatiale - Alenia, Aerospatiale - Aeritalia

Applicability:

ATR 42-200, ATR 42-300, ATR 42-320, ATR 42-400, ATR 42-500, ATR 72-101, ATR 72-102, ATR 72-201, ATR 72-202, ATR 72-211, ATR 72-212 and ATR 72-212A aeroplanes, all serial numbers (s/n).

Definitions:

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

The SB: SAFRAN (AVOX Systems, Inc.) Service Bulletin (SB) 10015804-35-03.

The AOM: ATR Airworthiness Operator Message (AOM) 2019/04, which refers to accomplishment instructions of the SB.



Affected part: Oxygen cylinders, having Part Number (P/N) 89794077, and having s/n as listed in the Appendix of the SB, except those that passed an inspection (marked with blue dot) in accordance with the instructions of the AOM or the SB.

Serviceable part: Oxygen cylinders which are not 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:

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 system. 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, ATR issued the AOM 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.

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 part, 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 AOM.

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 AOM and the SB, before next flight, remove that cylinder in accordance with the instructions of the AOM or the SB, and replace it with a serviceable part.

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:

ATR AOM 2019/04 original issue dated 16 April 2019.

SAFRAN / AVOX Systems, Inc. SB 10015804-35-03 original issue dated 11 April 2019.

The use of later approved revisions of the above-mentioned documents 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.
2. This AD was posted on 17 April 2019 as PAD 19-069 for consultation until 15 May 2019. 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 Programming and Continued Airworthiness 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: ATR - GIE Avions de Transport Régional, Continued Airworthiness Service, Telephone: +33 (0)5 62 21 62 21, Fax: +33 (0) 5 62 21 67 18; E-mail: continued.airworthiness@atr-aircraft.com.

