



Airworthiness Directive

AD No.: 2021-0135

Issued: 02 June 2021

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 Change Approval Holder's Name:

LUFTHANSA TECHNIK AG

Supplemental Type Certificates:

Modifications as identified in Appendix 1

Effective Date: 16 June 2021

STC Number(s): Supplemental Type Certificates (STC) as identified in Appendix 1 of this AD

Foreign AD: Not applicable

Supersedure: None

ATA 35 – Oxygen – Low-Pressure Oxygen Flexible Hoses – Replacement

Manufacturer(s):

The Boeing Company

Applicability:

Model 737-700, 737-800, 747-400, 747-8, 767-400ER and 777-200 aeroplanes, manufacturer serial numbers (MSN) 28551, 28961, 29953, 30791, 30884, 32445, 32575, 32915, 32970, 32971, 33010, 33102, 33361, 33684, 34205, 37500 and 37544, if modified by a Lufthansa Technik AG (LHT) STC as identified in Appendix 1 of this AD.

Definitions:

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

Affected part: Conductive oxygen flexible hoses (flex-hoses), installed on low pressure (LP) gaseous passenger oxygen systems.

Serviceable part: Any non-conductive oxygen flex-hose that is eligible for installation.

The applicable DCS: LHT Design Change Summary (DCS) as identified in Appendix 1 of this AD, as applicable.



Reason:

In August 2016, the Federal Aviation Administration (FAA) issued [AD 2016-18-02](#) applicable to certain Boeing 777 aeroplanes, recently superseded by FAA [AD 2019-25-12](#). That AD requires replacing certain LP oxygen flex-hoses in the gaseous passenger oxygen system with new non-conductive LP oxygen flex-hoses. The FAA also issued [AD 2018-09-12](#), applicable to certain Boeing 747 aeroplanes, requiring the same actions.

Since those ADs were issued, it was determined that the same conductive oxygen flex-hoses have been installed by LHT STC on certain other Boeing aeroplanes, not part of the Applicability of the FAA ADs referenced above. There is the potential for electrical current to pass through these LP oxygen flex-hoses in the gaseous passenger oxygen system.

This condition, if not corrected, could lead to melting or burning of the flex-hoses, possibly resulting in an oxygen-fed fire in the passenger cabin and consequent injury to occupants.

To address this potential unsafe condition, LHT issued the applicable DCS, providing instructions to replace the affected parts with serviceable parts, as defined in this AD.

For the reason described above, this AD requires replacement of the affected parts. This AD also prohibits (re)installation of affected parts.

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

Required as indicated, unless accomplished previously:

Replacement:

- (1) Within 48 months after the effective date of this AD, replace each affected part, as defined in this AD, with a serviceable part, as defined in this AD, in accordance with the instructions of the applicable DCS.

Part(s) Installation:

- (2) After modification of an aeroplane as required by paragraph (1) of this AD, do not install an affected part in any gaseous passenger oxygen system on that aeroplane.

Ref. Publications:

See Appendix 1 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 04 May 2021 as PAD 21-065 for consultation until 01 June 2021. No comments were received during the consultation period.
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](#). This may include reporting on the same or similar components, other than those covered by the design to which this AD applies, if the same unsafe condition can exist or may develop on an aircraft with those components installed. Such components may be installed under an FAA Parts Manufacturer Approval (PMA), Supplemental Type Certificate (STC) or other modification.

5. For any question concerning the technical content of the requirements in this AD, please contact: Lufthansa Technik AG (Airworthiness Office), E-mail: hamtolmus@lht.dlh.de.



Appendix 1 – Applicability – STC – Applicable DCS

Aeroplane Model	MSN	STC	Applicable DCS (see Note A1 of this AD)
737-700	30791	EASA.A.S.02705	BCP-35-DCS-01 original issue dated 05 January 2021, or Revision 1 dated 20 April 2021
	30884		
	32575		
	32970		
	33010		
33102			
737-800	32915	LBA.21.E2.TA0501	BCS-35-DCS-01 original issue dated 05 January 2021
	32971	EASA.A.S.00221	BCR-35-DCS-01 original issue dated 07 January 2021, or Revision 1 dated 20 April 2021
	33361	LBA TA0560	BCQ-35-DCS-01 original issue dated 07 January 2021, or Revision 1 dated 20 April 2021
747-400	28961	LBA TA0585	BCX-35-DCS-01 original issue dated 07 January 2021, or Revision 1 dated 04 February 2021
	32445	LBA TA0745	BCU-35-DCS-01 original issue dated 05 January 2021
	33684	EASA.A.S.01692	BCV-35-DCS-01 original issue dated 04 February 2021
	28551	EASA.A.S.01519	BCW-35-DCS-01 original issue dated 04 January 2021
747-8	37500	EASA 10054178	ASN-00-DCS-01 Revision 6 dated 25 June 2020, or Revision 7 dated 26 August 2020, or Revision 8 dated 05 November 2020
	37544	EASA 10053514	ATB-25-DCS-01 Revision 10 dated 07 January 2021
767-400ER	34205	EASA 10048788	ATR-23-DCS-01 Revision 2 dated 07 January 2021
777-200	29953	LBA TA0352	BCM-35-DCS-01 original issue dated 04 January 2021

Note A1: The use of later approved revisions of the above-mentioned documents is acceptable for compliance with the requirements of this AD.

