

## Notification of a Proposal to issue an Airworthiness Directive

**PAD No.: 19-222**

**Issued: 20 December 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 HELICOPTERS

AIRBUS HELICOPTERS DEUTSCHLAND GmbH

LEONARDO S.A.

WSK PZL – SWIDNIK S.A.

### Type/Model designation(s):

AS 332, AS 365, EC 155, EC 175, EC 225, SA 330 and SA 365 helicopters

EC135, EC635 and MBB-BK117 helicopters

AB139, AB 204, AB 205, AB212, AB412, AS-61, AW139, AW169 and AW189 helicopters

PZL W-3A helicopters

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

**TCDS Number(s):** Italy A 150 and A 270; EASA.R.002, EASA.R.006, EASA.R.007, EASA.R.009, EASA.R.010, EASA.R.105, EASA.R.114, EASA.R.150, EASA.R.509 and EASA.R.510

**Foreign AD:** Not applicable

**Supersedure:** None

### ATA 26 – Fire Protection – Hand-held Fire Extinguishers – Replacement

#### Manufacturer(s):

Airbus Helicopters, formerly Eurocopter, Eurocopter France, Aerospatiale, Sud Aviation; Airbus Helicopters Deutschland, formerly Eurocopter Deutschland, Eurocopter Hubschrauber, Messerschmidt-Bölkow-Blohm; Leonardo, S.A., formerly Finmeccanica S.A., AgustaWestland, Agusta S.p.A.; and WSK "PZL - Swidnik" S.A.

**Applicability:**

AS 332 C, C1, L, L1 and L2, AS 365 N2 and N3, EC 155 B and B1, EC 175 B, EC 225 LP, SA 330 J, and SA 365 C1, C2, C3, N and N1 helicopters, all serial numbers (s/n);

EC135 P1, P2, P2+, P3, T1, T2, T2+ and T3, EC635 P2+, P3, T1, T2+ and T3, and MBB-BK117 A-1, A-3, A-4, B1, B-2, C-1, C-2 and D-2 helicopters, all s/n;

AB139, AB 204 B, AB 205 A-1, AB212, AB412, AB412 EP, AS-61N, AS-61N1, AW139, AW169 and AW189 helicopters, all s/n; and

PZL W-3A and PZL W-3AS helicopters, all s/n.

**Definitions:**

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

**The VSB:** Umlaut Engineering GmbH Vendor Service Bulletin (VSB) P3VSB000001, issue C.

**Affected part:** umlaut engineering GmbH (formerly P3 Engineering GmbH) HAFEX (Halon-free) hand-held fire extinguishers, having Part Number (P/N) P3APP003010A or P/N P3APP003010C, having a manufacturing date (month) 03/2019, 04/2019, 05/2019, 06/2019 or 07/2019, and having a s/n as listed in the SB.

**Serviceable part:** Any hand-held fire extinguisher that is not an affected part and is eligible for installation on the helicopter type design.

**Reason:**

Occurrences have been reported of a quality issue on certain Halon-free fire extinguishers, manufactured by umlaut engineering GmbH (formerly P3 Engineering GmbH), where the spindle geometries of the extinguishers were found to be out of tolerance. In case of previous unknown prolonged exposure (12 hours or more) to high temperature conditions of more than 68°C, this manufacturing defect could cause an undetectable seizure of the spindle that would render the fire extinguisher inoperative.

This condition, if not corrected, could prevent proper extinguishing of a fire in the cabin, possibly resulting in damage to the helicopter and injury to the occupants.

To address this potential unsafe condition, umlaut engineering, the manufacturer of the affected parts, issued the SB to provide the necessary instructions for replacement.

For the reasons described above, this AD requires replacement of the affected parts with serviceable parts, as defined in this AD.



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

Required as indicated, unless accomplished previously:

**Replacement:**

- (1) During the next scheduled annual inspection of the affected part, or within 4 months after the effective date of this AD, whichever occurs later, remove that affected part from the helicopter in accordance with the instructions of the VSB and replace it with a serviceable part.

**Parts Installation:**

- (2) From the effective date of this AD, do not install an affected part on any helicopter.

**Ref. Publications:**

umlaut engineering GmbH [VSB P3VSB000001, issue C](#) dated 13 December 2019.

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 17 January 2020.
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 the type design approval holder of the affected helicopter, or umlaut engineering GmbH (formerly P3 Engineering GmbH), Blohmstraße 12, 21079 Hamburg, Germany, website: <https://p3-hafex.com>.

