



U.S. Department
of Transportation
**Federal Aviation
Administration**

Southwest Region
Arkansas, Louisiana,
New Mexico, Oklahoma,
Texas

Fort Worth, Texas 76177

September 7, 2017

Mr. Chris Carter
Technical Representative
Airbus Helicopters, Inc.
2701 Forum Drive
Grand Prairie, TX 75052-7099

Dear Mr. Carter,

The Federal Aviation Administration (FAA) received your letter dated August 8, 2017 requesting FAA approval of amended Alternate Means of Compliance (AMOC) to paragraph (e) of Airworthiness Directive (AD) 2016-12-51 on behalf of all operators of Airbus Helicopters Inc. (AHI) Model EC225LP and AS332L2 helicopters.

Paragraph (e) of AD 2016-12-51 prohibits further flight. Your AMOC request is based on the required actions of EASA AD 2016-0199, dated October 7, 2016 in order to lift the grounding imposed by EASA AD 2016-0104-E and later revised EASBs that are implemented by EASA AD 2017-0111 dated June 23, 2017, and EASA AD 2017-0134 dated July 27, 2017.

AHI proposes the following AMOC:

- The second stage planet gears with the associated part numbers 332A32-3335-00, 332A32-3335-02, 332A32-3335-03, 332A32-3335-05 and 332A32-3335-07, must be removed from service before further flight. These part numbers shall not be reinstalled in the future and must be replaced with the part numbers 332A32-3335-04 and 332A32-3335-06. Dependent on aircraft model and epicyclic module part numbers, these gears will have reduced life, as detailed in Table 1 of EASB 63.00.83 (for the AS332) and EASB 63A030 (for the EC225LP) which are both at revision 2. Additionally, any part number 332A32-3335-04 or 332A32-3335-06 having more time than is listed in Table 1 of EASB 63.00.83 (for the AS332) and EASB 63A030 (for the EC225LP) which are both at revision 2, is unserviceable and must be replaced before further flight.
- Planet gear assemblies must be removed from service if there is any previous history of an event that required a repair that is listed in Table 1 AS332 EASB 05.01.07 or table 2 of EC225 EASB 05A049, both at revision 6. If a repair is listed in the records of the component and the reason for the repair is not detailed in the logbook, it is

mandatory that the operator contact the overhaul agency to ascertain the reason for the repair.

- If the total time of the second stage planet gears is greater than epicyclic module, the overhaul agency must provide the operator with a determination that the gears were not subject to an event listed in Table 1 of AS332 EASB 05.01.07 or EC225 EASB 05A049, both at revision 6.
- For both model helicopters within 100 flight hours or before October 31, 2017 comply with the installation of a full flow magnetic plug (FFMP) as per SB EC225-63-032 revision 1 (modification 0753047) and SB332-63-00-84 revision 0 (modification 0753049).
- For all AS332L2 and EC225 helicopters that do not have the FFMP installed, during every after last flight inspection (ALF) without exceeding 10 TIS hours, inspect for particles on the chip detectors of the MGB epicyclic module, MGB sump, MGB flared housing and the MGB oil cooler, per paragraph 3.B.1.2 of the applicable EASB 05A049 or EASB 05.01.07 both at revision 6.
- All AS332L2 and EC225 that do not have the FFMP installed continue to check the oil filters and the oil coolers per table 5 of the applicable EASB 05A049 or EASB 05.01.07 both at revision 6.
- For all AS332L2 and EC225 helicopters with FFMP installed, during after last flight inspection (ALF), without exceeding 10 TIS hours, inspect for particles on the chip detectors of the MGB epicyclic module, MGB sump, and MGB flared housing and inspect for particles on the FFMP per paragraph 3.B.1.b of the applicable EASB 05A049 or EASB 05.01.07 both of revision 6.
- For aircraft that are coming out of long term storage comply with paragraph 3.B.4 of the applicable EASB 05A049 or EASB 05.01.07 both at revision 6, for de-preservation of the MGB and oil cooler which include draining and flushing of the oil cooler and checking for particles.
- All collected particles that exceed the criteria outlined in Appendix 4.A of the applicable EASB 05A049 or EASB 05.01.07 both at revision 6, accomplish the corrective action outlined in Appendix 4.A. flow chart, before the next flight.
- Before the next flight, insert the page in Appendix 4.B of the applicable EASB 05A049 or EASB 05.01.07 both at revision 6, into the flight manual.
- There are no terminating actions in this AMOC.

The above proposed amended AMOC for AHI helicopter Models EC225LP and AS332L2 affected by FAA AD 2016-12-51 dated July 20, 2016, is FAA approved for paragraph (e) of the section titled "Required Action". This amended AMOC will supersede the AMOC dated December 8, 2016.

Note that the granting of this AMOC does not relieve, alter or waive any other maintenance operations required for the effected helicopter models, other than those specifically mentioned herein.

This AMOC does not invalidate other similar AMOCs that have been issued. This FAA AMOC is transferable with the aircraft to an operator who operates the aircraft under U.S. registry.

Before using this AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

This AMOC only applies to the FAA AD listed above. The FAA does not have the authority to approve this as an AMOC to any AD issued by another Civil Aviation Authority (CAA). Approval of an AMOC to another CAA's AD must come from that CAA. A copy of this response will be forwarded to the CAA where these aircraft are registered for their consideration.

All provisions of AD 2016-12-51 that are not specifically referenced above remain fully applicable and must be complied with accordingly.

If you have questions, please contact Mr. Rao Edupuganti at (817) 222-4389.

Sincerely,



Stephen Barbini
Manager, Rotorcraft Standards Branch, Safety Management Group,
Aircraft Certification Service

File Message Adobe PDF

Ignore X Delete Reply Forward All Respond Meeting More

Reply Reply Forward All Respond Meeting More

Team E-mail Create New

Monthly Report Done

Move to? Move

To Manager: Reply & Delete

Rules OneNote Actions

Mark Unread Categorize Follow Up

Translate Edit

Find Related Select

Zoom

Sent: Tue 9/12/2017 1:53 PM

From: Brown, Felicia

To:

CC:

Re: AirOC for AD 2016-12-51 rev 2 dated 9/7/2017

0 This message was sent from a High Priority mailbox.

Arnold, Chris; Albert, Winston; Arnold, Kent; Bennett, Bill; Breaux, Chris; Brown, Tom; Carter, Chris; Crawford, Brandon; Cunningham, Lindsay; Davis, Cambire; Erwin, Randall; Fajal, Emanuele; Gregoire, Jarrod; Griffith, Cathy; Grubb, Mike; Guichard, Doug; Gus Abramados; Haller, Kelly; Herbot, Eric; Heenke, Rodney; Hubbel, Jonathan; Huntley, Tom; Lyons, Eric; Marvin, Richard; Mather, Mike; May, Mike; McClart, Roy; McJannet, Cesar; Noriega, Michael; Notzinger, Jerry; Pank, Mike; Newman, Karl; Nguyen, Courtney; Paul, David; Peterson, Paul; Poole, Courtney; Ramadani, Alas; Reid, Brian; Shauger, John; Shieby, Rick; Sheppon, Cory; Smith, Steve; Soderlund, Peter; Spade, Jason; Stegler, Scott; Thompson, Honnque; To, Linda; Vogel, Dave; Weatherhead, Les; Webb, Bruce; Young, Gregg; Aircraft Technical Publications; AirOC for AD 2016-12-51 rev 2 dated 9/7/2017

Good Afternoon,

Please see attached the AMOC for AD 2016-12-51 rev 2 dated 9/7/2017.

Sincerely,



Felicia BROWN
Database Admin/Functional Specialist
Technical Support

P (972) 641 3558
F (972) 641 3710
E Felicia.brown@airbus.com

Airbus Helicopters, Inc.
2701 N. Forum Drive
Grand Prairie, TX 75052

AMOC for AD 2016-12-51 rev 2 dated 9/7/2017 - Message (HTML)

Sent: Tue 9/12/2017 1:53 PM

From: Brown, Felicia

To:

Cc: Gregoire, Jarrod; Griffith, Cathy; Gribb, Mike; Guichard, Doug; Sun Kaliramadoss; Haler, Keith; Herbst, Eric; Hoemle, Rodney; Humble, Larry; Krizard, James; Kneey, Ron; Luce, Tom; Lyons, Eric; Marver, Richard; Matter, Mike; May, Mike; McClarty, Roy; Medrano, Cesar; Mortez, Michael; Moberg, Jerry; Munz, Mike; Newman, Karl; Ogilvy, Courtney; Olsen, Paul; Poole, Courtney; Ramadan, Alaa; Reid, Brian; Shauger, John; Shelby, Rick; Shoop, Cory; Smith, Steve; Soderlund, Peter; Spade, Jason; Stasler, Scott; Thompson, Monique; Vo, Linda; Vogel, Dave; Weatherhead, Les; Webb, Bruce; Young, Gregg; Aircraft Technical Publications; Era Helicopters LLC; Federal Aviation (FAA)

Subject: AMOC for AD 2016-12-51 rev 2 dated 9/7/2017

AMOC for AD 2016-12-51 rev 2 9-7-2017.pdf (44 KB)

Good Afternoon,
 Please see attached the AMOC for AD 2016-12-51 rev 2 dated 9/7/2017.

Sincerely,



Felicia BROWN
 Database Admin/Functional Specialist
 Technical Support

P (972) 641 3558
 F (972) 641 3710
 E Felicia.brown@airbus.com

Airbus Helicopters, Inc.
 2701 N. Forum Drive
 Grand Prairie, TX 75052