

# Proposed Rules

Federal Register

Vol. 77, No. 28

Friday, February 10, 2012

This section of the FEDERAL REGISTER contains notices to the public of the proposed issuance of rules and regulations. The purpose of these notices is to give interested persons an opportunity to participate in the rule making prior to the adoption of the final rules.

## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. FAA-2012-0101; Directorate Identifier 2010-SW-042-AD]

RIN 2120-AA64

#### Airworthiness Directives; Eurocopter Deutschland GMBH Helicopters

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Notice of proposed rulemaking (NPRM).

**SUMMARY:** We propose to adopt a new airworthiness directive (AD) for Eurocopter Deutschland GMBH (ECD) Model MBB-BK 117 C-1 and C-2 helicopters. This proposed AD would require installing a placard that corresponds to the maximum permissible flight altitude, amending the Rotorcraft Flight Manual (RFM) to revise the maximum permissible operating altitude, and inserting revised performance charts into the RFM. The proposed AD would also require a repetitive maintenance "MAX N1 CHECK" to determine the appropriate maximum altitudes. The AD would also require, if the engine or a fuel control unit (FCU) or module 2 or 3 is replaced, repeating the maintenance "MAX N1 CHECK." Finally, the proposed AD specifies that modifying both engines would provide terminating action for the proposed AD requirements. This proposed AD is prompted by the failure of a "few" engines to reach the specified one-engine-inoperative (OEI) rating at altitudes above 10,000 feet. The proposed actions are intended to prevent flights at altitudes where the full OEI engine power cannot be reached and subsequent loss of control of the helicopter if an OEI operation is required.

**DATES:** We must receive comments on this proposed AD by April 10, 2012.

**ADDRESSES:** You may send comments by any of the following methods:

- *Federal eRulemaking Docket:* Go to <http://www.regulations.gov>. Follow the online instructions for sending your comments electronically.

- *Fax:* 202-493-2251.

- *Mail:* Send comments to the U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC 20590-0001.

- *Hand Delivery:* Deliver to the "Mail" address between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

*Examining the AD Docket:* You may examine the AD docket on the Internet at <http://www.regulations.gov> or in person at the Docket Operations Office between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this proposed AD, the economic evaluation, any comments received, and other information. The street address for the Docket Operations Office (telephone 800-647-5527) is in the **ADDRESSES** section. Comments will be available in the AD docket shortly after receipt.

For service information identified in this proposed AD, contact American Eurocopter Corporation, 2701 Forum Drive, Grand Prairie, Texas 75053-4005; telephone (800) 232-0323; fax (972) 641-3710; or at <http://www.eurocopter.com>. You may review copies of the referenced service information at the FAA, Office of the Regional Counsel, Southwest Region, 2601 Meacham Blvd., Room 663, Fort Worth, Texas 76137.

**FOR FURTHER INFORMATION CONTACT:** Ed Cuevas, Aviation Safety Engineer, Safety Management Group, Rotorcraft Directorate, FAA, 2601 Meacham Blvd., Fort Worth, Texas 76137; telephone (817) 222-5110; email [ed.cuevas@faa.gov](mailto:ed.cuevas@faa.gov).

#### SUPPLEMENTARY INFORMATION:

##### Comments Invited

We invite you to participate in this rulemaking by submitting written comments, data, or views. We also invite comments relating to the economic, environmental, energy, or federalism impacts that might result from adopting the proposals in this document. The most helpful comments reference a specific portion of the proposal, explain the reason for any recommended change, and include

supporting data. To ensure the docket does not contain duplicate comments, commenters should send only one copy of written comments, or if comments are filed electronically, commenters should submit only one time.

We will file in the docket all comments that we receive, as well as a report summarizing each substantive public contact with FAA personnel concerning this proposed rulemaking. Before acting on this proposal, we will consider all comments we receive on or before the closing date for comments. We will consider comments filed after the comment period has closed if it is possible to do so without incurring expense or delay. We may change this proposal in light of the comments we receive.

#### Discussion

The European Aviation Safety Agency (EASA), which is the Technical Agent for the Member States of the European Union, has issued AD No.: 2008-0061, dated March 27, 2008, to correct an unsafe condition for ECD Model MBB-BK 117 C-1 and C-2 helicopters. EASA states that during testing at maximum certification altitude, a few helicopters could not reach the specified OEI power threshold. The cause was identified as an engine acceleration limitation due to a lower delivered fuel flow than the engine fuel flow demand needed to achieve the OEI rating at high altitude. They state that this condition could occur at altitudes exceeding 10,000 feet depending on the engine and FCU characteristics.

#### FAA's Determination

We are proposing this AD because we evaluated all known relevant information and determined that an unsafe condition exists and is likely to exist or develop on other products of these same type designs.

#### Related Service Information

ECD has issued Alert Service Bulletin (ASB) No. ASB-MBB-BK117-60-121, Revision 4, (ASB121) for Model MBB-BK 117 C-1 helicopters and ASB MBB BK117 C-2-71A-003, Revision 3 (ASB003), for Model MBB-BK 117 C-2 helicopters. Both ASBs are dated December 11, 2007, and apply to Turbomeca Arriel 1E2 engines. Both ASBs specify a "MAX N1 CHECK" for helicopters with FCUs that have not been modified by Turbomeca

modification TU 358, for takeoffs, landings, and hovering in-ground effect (IGE) or hovering out-of-ground effect (OGE) higher than 10,000 feet or flight above 13,000 feet. The ASBs specify limiting the maximum permissible flight altitude if the OEI rating cannot be achieved. The ASBs also specify the measures are no longer necessary when you modify both engines (Modification TU 358). EASA classified these ASBs as mandatory and issued AD No.: 2008–0061, dated March 27, 2008, to ensure the continued airworthiness of these helicopters.

#### Proposed AD Requirements

This proposed AD would require compliance with specified portions of the manufacturer's service bulletin including installing a placard that corresponds to the maximum permissible flight altitude, amending the RFM to revise the maximum permissible operating altitude for both the MBB–BK 117 C–1 and C–2 helicopters, and inserting revised performance charts into the RFM for the C–1 model. This proposed AD would also require maintenance "MAX N1 CHECKS" to determine the modified maximum operational altitudes. This proposal would also require, if the engine or an FCU or module 2 or 3 is replaced, repeating the maintenance "MAX N1 CHECK." Finally, this proposal specifies that modifying both engines with Turbomeca Modification TU 358 is terminating action for the requirements of this proposed AD. After the modification of both engines, you may remove the placards and flight manual revisions required by this AD.

#### Differences Between This Proposed AD and the EASA AD

We do not reference the effective date stated in the EASA AD because it has passed. We have modified the initial placard wording to make it clear that before performing the topping check, the "operating altitude" for takeoff, landing, and hovering is a pressure altitude (PA) of 10,000 feet, but flight up to a maximum 13,000 feet is permitted as long as the helicopter stays at an airspeed above effective translational lift. After the topping check is performed, the "operating altitude" limitation refers to all modes of flight.

#### Costs of Compliance

We estimate that this proposed AD would affect 108 helicopters of U.S. Registry.

We estimate that operators may incur the following costs in order to comply with this AD. It would take about 1 work-hour per helicopter to affix a

placard and insert the RFM pages at an average labor rate of \$85 per work-hour. We estimate 54 maintenance flight checks for higher altitude operators would be required at \$1,000 each. There are no parts costs. Based on these figures, we estimate the total cost impact of the proposed AD on U.S. operators to be \$63,180.

#### Authority for This Rulemaking

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. "Subtitle VII: Aviation Programs," describes in more detail the scope of the Agency's authority.

We are issuing this rulemaking under the authority described in "Subtitle VII, Part A, Subpart III, Section 44701: General requirements." Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

#### Regulatory Findings

We determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

*For the reasons discussed, I certify this proposed regulation:*

1. Is not a "significant regulatory action" under Executive Order 12866;
2. Is not a "significant rule" under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979);
3. Will not affect intrastate aviation in Alaska to the extent that it justifies making a regulatory distinction; and
4. Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

We prepared an economic evaluation of the estimated costs to comply with this proposed AD and placed it in the AD docket.

#### List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

#### The Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 14 CFR part 39 as follows:

#### PART 39—AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

**Authority:** 49 U.S.C. 106(g), 40113, 44701.

#### § 39.13 [Amended]

2. The FAA amends § 39.13 by adding the following new Airworthiness Directive (AD):

**Eurocopter Deutschland GMBH:** Docket No. FAA–2012–0101; Directorate Identifier 2010–SW–042–AD.

#### (a) Applicability

This AD applies to Eurocopter Deutschland GMBH (ECD) Model MBB–BK 117 C–1 and C–2 helicopters with a Turbomeca Arriel 1E2 engine installed, which has a Fuel Control Unit (FCU) that has not been modified with Turbomeca Modification TU 358, certificated in any category.

#### (b) Unsafe Condition

This AD defines the unsafe condition as failure of engines to reach the specified one-engine-inoperative (OEI) rating at altitudes above 10,000 feet. This condition could result in high altitude operations when full OEI engine power is not available and subsequent loss of control of the helicopter if an OEI operation is required.

#### (c) Compliance

You are responsible for performing each action required by this AD within the specified compliance.

#### (d) Required Actions

(1) For Model MBB–BK117 C–1 helicopters:

(i) Before any flight operation at or above a pressure altitude (PA) of 10,000 feet, unless accomplished previously:

(A) Affix a placard to the instrument panel in plain view of the pilot(s), which states: "Maximum altitude for takeoff, landing, and hovering is 10,000 ft PA. Maximum operating altitude above effective translational lift is 13,000 ft PA," or comply with paragraph (1)(iii) of this AD. The term "hovering" as used in this placard includes both in-ground effect (IGE) and out-of-ground effect (OGE) hovering.

(B) Revise the Altitude Limitations section of the Rotorcraft Flight Manual (RFM), in accordance with paragraph 2.9 on pages 9 and 10; paragraph B.2.1. on page 15; and paragraph C.2.3.2. on page 16 of Eurocopter Alert Service Bulletin No. ASB–MBB–BK117–60–121, Revision 4, dated December 11, 2007 (ASB121).

(C) Attach each revised page 11–1–7 (ASB121, page 11) through 11–1–10 (ASB121, page 14) to the unrevised same-numbered page in the Performance section of the RFM.

(ii) Within 50 hours time-in-service (TIS), unless accomplished previously:

(A) Revise the RFM as required by paragraph (1)(i)(B) and (1)(i)(C) of this AD; and

(B) Affix the placard as required by paragraph (1)(i)(A) of this AD or comply with paragraph (1)(iii) of this AD.

(iii) At intervals not to exceed 600 hours TIS:

(A) Before operating between a 16,000 ft PA and 18,000 ft PA, perform the “MAX N1 CHECK” by following the Accomplishment Instructions, paragraph 2.B.1.1., of ASB121. If the OEI rating is not reached, either affix a placard as required by paragraph (1)(i)(A) or comply with paragraph (1)(iii)(B) or (1)(iii)(C) of this AD.

(B) Before operating between 13,000 ft PA and 16,000 ft PA, perform the “MAX N1 CHECK” by following the Accomplishment Instructions, paragraph 2.B.1.4., of ASB121.

(1) If the OEI rating is reached, affix a placard to the instrument panel in plain view of the pilot(s), which states: “Maximum operating altitude is 16,000 ft PA.”

(2) If the OEI rating is not reached, either affix a placard as required by paragraph (1)(i)(A) of this AD or comply with paragraph (1)(iii)(C) of this AD.

(C) Before operating between 10,000 ft PA and 13,000 ft PA, perform the “MAX N1 CHECK” by following the Accomplishment Instructions, paragraph 2.B.1.7., of ASB121.

(1) If the OEI rating is reached, affix a placard to the instrument panel in plain view of the pilot(s), which states: “Maximum operating altitude is 13,000 ft PA.”

(2) If the OEI rating is not reached, affix a placard as required by paragraph (1)(i)(A) of this AD.

(2) For Model MBB–BK 117 C–2 helicopters:

(i) Before any flight operation at or above a PA of 10,000 feet, unless accomplished previously:

(A) Affix a placard to the instrument panel in plain view of the pilot(s), which states: “Maximum altitude for takeoff, landing, and hovering is 10,000 ft PA. Maximum operating altitude above effective translational lift is 13,000 ft PA,” or comply with paragraph (2)(iii) of this AD. The term “hovering” as used in this placard includes both IGE and OGE hovering.

(B) Revise the Altitude Limitations section of the RFM in accordance with paragraph A.2.3. on page 10 and paragraph 2.8. on page 11 of Eurocopter ASB No. MBB BK117 C–2–71A–003, Revision 3, dated December 11, 2007 (ASB003).

(ii) Within 50 hours TIS, unless accomplished previously:

(A) Revise the RFM as required by paragraph (2)(i)(B) of this AD; and

(B) Affix a placard as required by paragraph (2)(i)(A) of this AD or comply with paragraph (2)(iii) of this AD.

(iii) At intervals not to exceed 600 hours TIS:

(A) Before operating between 16,000 ft PA and 18,000 ft PA, perform the “MAX N1

CHECK” by following the Accomplishment Instructions, paragraph 3.A.(1) (on pages 4 and 5), of ASB003. If the OEI rating is not reached, either affix a placard as required by paragraph (2)(i)(A) or comply with paragraph (2)(iii)(B) or (2)(iii)(C) of this AD.

(B) Before operating between 13,000 ft PA and 16,000 ft PA, perform the “MAX N1 CHECK” by following the Accomplishment Instructions, paragraph 3.A.(1) (on pages 5 and 6) of ASB003.

(1) If the OEI rating is reached, affix a placard to the instrument panel in plain view of the pilot(s), which states: “Maximum operating altitude is 16,000 ft PA.”

(2) If the OEI rating is not reached, either affix a placard as required by paragraph (2)(i)(A) or comply with paragraph (2)(iii)(C) of this AD.

(C) Before operating between 10,000 ft PA and 13,000 ft PA, perform the “MAX N1 CHECK” by following the Accomplishment Instructions, paragraph 3.A.1. (on page 7) of ASB003.

(1) If the OEI rating is reached, affix a placard to the instrument panel in plain view of the pilot(s), which states: “Maximum operating altitude is 13,000 ft PA.”

(2) If the OEI rating is not reached, affix a placard as required by paragraph (2)(i)(A) of this AD.

(3) If an engine, FCU, engine module 2 or engine module 3 is replaced, before any flight operation at or above a PA of 10,000 feet, comply with the requirements of paragraph (1) of this AD for the Model MBB–BK 117 C–1 helicopter or paragraph (2) of this AD for the Model MBB–BK 117 C–2 helicopter.

(4) Modifying both engines with Turbomeca Modification TU 358 is terminating action for the requirements of this AD. After modifying both engines, remove from the RFM the revised altitude limitations and the revised performance pages required by this AD.

#### (e) Alternative Methods of Compliance (AMOC)

(1) The Manager, Safety Management Group, FAA, may approve AMOCs for this AD. Send your proposal to: Ed Cuevas, Aviation Safety Engineer, Safety Management Group, Rotorcraft Directorate, FAA, 2601 Meacham Blvd., Fort Worth, Texas 76137; telephone (817) 222–5110; email [ed.cuevas@faa.gov](mailto:ed.cuevas@faa.gov).

(2) For operations conducted under a Part 119 operating certificate or under Part 91, Subpart K, we suggest that you notify your principal inspector, or lacking a principal inspector, the manager of the local flight standards district office or certificate holding district office before operating any aircraft complying with this AD through an AMOC.

#### (f) Additional Information

The subject of this AD is addressed in European Aviation Safety Agency (Germany) AD No.: 2008–0061, dated March 27, 2008.

#### (g) Subject

Joint Aircraft Service Component (JASC) Code: 1100, Placards and Markings.

Issued in Fort Worth, Texas, on January 27, 2012.

**Lance T. Gant,**

*Acting Manager, Rotorcraft Directorate, Aircraft Certification Service.*

[FR Doc. 2012–3187 Filed 2–9–12; 8:45 am]

**BILLING CODE 4910–13–P**

## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

**[Docket No. FAA–2012–0111; Directorate Identifier 2011–NM–089–AD]**

**RIN 2120–AA64**

#### Airworthiness Directives; Airbus Airplanes

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Notice of proposed rulemaking (NPRM).

**SUMMARY:** We propose to adopt a new airworthiness directive (AD) for certain Airbus Model A330–200 series airplanes; Model A330–300 series airplanes; Model A340–200 series airplanes; Model A340–300 series airplanes; Model A340–541 airplanes; and Model A340–642 airplanes. This proposed AD was prompted by reports of cracks in the bogie pivot pin caused by material heating due to friction between the bogie pivot pin and bush. This proposed AD would require performing a detailed inspection for degradation of the bogie pivot pins and pivot pin bushes of the main and central landing gear for any cracks and damage, and repairing or replacing bogie pivot pins and pivot pin bushes, if necessary. We are proposing this AD to correct and detect cracks and damage to the main and central landing gear, which could result in the collapse of the landing gear and adversely affect the airplane’s continued safe flight and landing.

**DATES:** We must receive comments on this proposed AD by March 26, 2012.

**ADDRESSES:** You may send comments by any of the following methods:

- *Federal eRulemaking Portal:* Go to <http://www.regulations.gov>. Follow the instructions for submitting comments.

- *Fax:* (202) 493–2251.

- *Mail:* U.S. Department of Transportation, Docket Operations, M–30, West Building Ground Floor, Room W12–140, 1200 New Jersey Avenue SE., Washington, DC 20590.

- *Hand Delivery:* U.S. Department of Transportation, Docket Operations, M–30, West Building Ground Floor, Room W12–140, 1200 New Jersey