

[Federal Register: July 13, 2010 (Volume 75, Number 133)]  
[Rules and Regulations]  
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From the Federal Register Online via GPO Access [wais.access.gpo.gov]  
[DOCID:fr13jy10-5]

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## **DEPARTMENT OF TRANSPORTATION**

### **Federal Aviation Administration**

#### **14 CFR Part 39**

**[Docket No. FAA-2007-29176; Directorate Identifier 2007-NE-38-AD; Amendment 39-16365; AD 2010-14-20]**

**RIN 2120-AA64**

#### **Airworthiness Directives; McCauley Propeller Systems Model 4HFR34C653/L106FA Propellers**

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

**ACTION:** Final rule.

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**SUMMARY:** The FAA is adopting a new airworthiness directive (AD) for McCauley Propeller Systems model 4HFR34C653/L106FA propellers. This AD requires a onetime fluorescent penetrant inspection (FPI) and eddy current inspection (ECI) of the propeller hub for cracks. This AD results from reports of 10 hubs found cracked during propeller overhaul. We are issuing this AD to prevent failure of the propeller hub, which could cause blade separation, damage to the airplane, and loss of control of the airplane.

**DATES:** This AD becomes effective August 17, 2010. The Director of the Federal Register approved the incorporation by reference of certain publications listed in the regulations as of August 17, 2010.

**ADDRESSES:** You can get the service information identified in this AD from McCauley Propeller Systems, P.O. Box 7704, Wichita, KS 67277-7704; telephone (800) 621-7767.

The Docket Operations office is located at Docket Management Facility, U.S. Department of Transportation, 1200 New Jersey Avenue, SE., West Building Ground Floor, Room W12-140, Washington, DC 20590-0001.

**FOR FURTHER INFORMATION CONTACT:** Jeff Janusz, Aerospace Engineer, Wichita Aircraft Certification Office, FAA, Small Airplane Directorate, 1801 Airport Road, Wichita, KS 67209; e-mail: jeff.janusz@faa.gov; telephone (316) 946-4148; fax (316) 946-4107.

**SUPPLEMENTARY INFORMATION:** The FAA proposed to amend 14 CFR part 39 with a proposed AD. The proposed AD applies to McCauley Propeller Systems model 4HFR34C653/L106FA propellers. We published the proposed AD in the Federal Register on September 28, 2007 (72 FR 55120). We also published a supplemental proposed AD in the Federal

Register on April 13, 2010 (75 FR 18774). Those actions proposed to require a onetime FPI and ECI of the propeller hub for cracks.

## **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 AD, the regulatory evaluation, any comments received, and other information. The street address for the Docket Operations office (telephone (800) 647-5527) is provided in the ADDRESSES section. Comments will be available in the AD docket shortly after receipt.

## **Comments**

We provided the public the opportunity to participate in the development of this AD. We received one comment on the original proposed AD, which we responded to in the supplemental proposed AD. We received no comments on the supplemental proposed AD, or on the determination of the cost to the public.

## **Conclusion**

We have carefully reviewed the available data and determined that air safety and the public interest require adopting the AD as proposed.

## **Costs of Compliance**

We estimate that this AD will affect 128 propellers installed on airplanes of U.S. registry. We also estimate that it will take about 41.5 work-hours per propeller to perform the actions, and that the average labor rate is \$85 per work-hour. Based on these figures, we estimate the total cost of the AD to U.S. operators to be \$451,520.

## **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 have determined that this AD will not have federalism implications under Executive Order 13132. This AD will 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 above, I certify that this AD:

- (1) Is not a "significant regulatory action" under Executive Order 12866;

(2) Is not a "significant rule" under DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979); and

(3) 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 a summary of the costs to comply with this AD and placed it in the AD Docket. You may get a copy of this summary at the address listed under ADDRESSES.

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

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

### **Adoption of the Amendment**

Accordingly, under the authority delegated to me by the Administrator, the Federal Aviation Administration amends 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:



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**2010-14-20 McCauley Propeller Systems:** Amendment 39-16365. Docket No. FAA-2007-29176; Directorate Identifier 2007-NE-38-AD.

**Effective Date**

- (a) This airworthiness directive (AD) becomes effective August 17, 2010.

**Affected ADs**

- (b) None.

**Applicability**

- (c) This AD applies to McCauley Propeller Systems model 4HFR34C653/L106FA propellers.

**Unsafe Condition**

(d) This AD results from reports of 10 hubs found cracked during propeller overhaul. We are issuing this AD to prevent failure of the propeller hub, which could cause blade separation, damage to the airplane, and loss of control of the airplane.

**Compliance**

(e) You are responsible for having the actions required by this AD performed within the compliance times specified unless the actions have already been done.

(f) For propeller hubs with 6,000 or more operating hours time-since-new (TSN) on the effective date of this AD, perform the procedures in paragraphs (h) through (k) of this AD within 100 operating hours time-in-service after the effective date of this AD.

(g) For propeller hubs with fewer than 6,000 operating hours TSN on the effective date of this AD, perform the procedures in paragraphs (h) through (k) of this AD before the propeller hub reaches 6,100 operating hours TSN.

**Onetime Propeller Hub Inspection**

(h) Remove and disassemble the propeller, and etch the propeller hub, using paragraphs 1.A. through 2.D. of the Accomplishment Instructions of McCauley Propeller Systems Alert Service Bulletin No. ASB254, dated August 20, 2007.

(i) Perform a onetime fluorescent penetrant inspection (FPI) of the propeller hub, using paragraphs 3.A through 3.G. of the Accomplishment Instructions of McCauley Propeller Systems Alert Service Bulletin No. ASB254, dated August 20, 2007.

(j) For hubs that pass the FPI, perform a onetime eddy current inspection of the propeller hub, using paragraphs 4.A. through 4.F. of the Accomplishment Instructions of McCauley Propeller Systems Alert Service Bulletin No. ASB254, dated August 20, 2007.

(k) Remove cracked hubs from service and any other propeller parts found cracked.

### **Previous Credit**

(l) If you performed the onetime inspection of the propeller hub using McCauley Propeller Systems Service Bulletin No. SB238A, or Alert Service Bulletin ASB254, both dated August 20, 2007, before the effective date of this AD, you have satisfied the inspection requirements of this AD.

### **Interim Action**

(m) These actions are interim actions and we may take further rulemaking actions in the future.

### **Alternative Methods of Compliance**

(n) The Manager, Wichita Aircraft Certification Office, has the authority to approve alternative methods of compliance for this AD if requested using the procedures found in 14 CFR 39.19.

### **Special Flight Permits**

(o) Under 14 CFR part 39.23, we are limiting the special flight permits for this AD as follows:

- (1) The propeller must have no signs of external oil leakage from the hub; and
- (2) The propeller has no current reports of abnormal operation or vibration.

### **Related Information**

(p) Contact Jeff Janusz, Aerospace Engineer, Wichita Aircraft Certification Office, FAA, Small Airplane Directorate, 1801 Airport Road, Wichita, KS 67209; e-mail: jeff.janusz@faa.gov; telephone (316) 946-4148; fax: (316) 946-4107, for more information about this AD.

### **Material Incorporated by Reference**

(q) You must use McCauley Propeller Systems, Service Bulletin No. ASB254, dated August 20, 2007, to perform the inspections required by this AD. The Director of the Federal Register approved the incorporation by reference of this service bulletin in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Contact McCauley Propeller Systems, P.O. Box 7704, Wichita, KS 67277-7704; telephone (800) 621-7767, for a copy of this service information. You may review copies at the FAA, New England Region, 12 New England Executive Park, Burlington, MA; or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Burlington, Massachusetts, on July 1, 2010.

Francis A. Favara,  
Manager, Engine and Propeller Directorate,  
Aircraft Certification Service.