

**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](mailto: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>.