

Issued in Burlington, Massachusetts, on November 18, 2008.

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Assistant Manager, Engine and Propeller Directorate, Aircraft Certification Service.

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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. FAA-2008-1245; Directorate Identifier 2008-NE-27-AD]

RIN 2120-AA64

#### Airworthiness Directives; CFM International S.A. Model CFM56 Turbofan Engines

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

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

**SUMMARY:** The FAA proposes to adopt a new airworthiness directive (AD) for CFM International S.A. CFM56-2, CFM56-3, CFM56-5A, CFM56-5B, CFM56-5C, and CFM56-7B series turbofan engines with certain part number (P/N) and serial number (SN) high-pressure compressor (HPC) 4-9 spools installed. This proposed AD would require removing certain HPC 4-9 spools listed by P/N and SN in this proposed AD. This proposed AD results from reports of certain HPC 4-9 spools that Propulsion Technology LLC (PTLLC) improperly repaired and returned to service. We are proposing this AD to prevent cracking of the HPC 4-9 spool, which could result in possible uncontained failure of the spool and damage to the airplane.

**DATES:** We must receive any comments on this proposed AD by January 26, 2009.

**ADDRESSES:** Use one of the following addresses to comment on this proposed AD.

- *Federal eRulemaking Portal:* Go to <http://www.regulations.gov> and follow the instructions for sending your comments electronically.
- *Mail:* Docket Management Facility, U.S. Department of Transportation, 1200 New Jersey Avenue, SE., West Building Ground Floor, Room W12-140, Washington, DC 20590-0001.
- *Hand Delivery:* Deliver to Mail address above between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.
- *Fax:* (202) 493-2251.

#### FOR FURTHER INFORMATION CONTACT:

Stephen K. Sheely, Aerospace Engineer, Engine Certification Office, FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803; e-mail: [stephen.k.sheely@faa.gov](mailto:stephen.k.sheely@faa.gov); telephone (781) 238-7750; fax (781) 238-7199.

#### SUPPLEMENTARY INFORMATION:

##### Comments Invited

We invite you to send us any written relevant data, views, or arguments regarding this proposal. Send your comments to an address listed under **ADDRESSES**. Include "Docket No. FAA-2008-1245; Directorate Identifier 2008-NE-27-AD" in the subject line of your comments. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of the proposed AD. We will consider all comments received by the closing date and may amend the proposed AD in light of those comments.

We will post all comments we receive, without change, to <http://www.regulations.gov>, including any personal information you provide. We will also post a report summarizing each substantive verbal contact with FAA personnel concerning this proposed AD. Using the search function of the Web site, anyone can find and read the comments in any of our dockets, including, if provided, the name of the individual who sent the comment (or signed the comment on behalf of an association, business, labor union, etc.). You may review the DOT's complete Privacy Act Statement in the **Federal Register** published on April 11, 2000 (65 FR 19477-78).

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

##### Discussion

We have received reports of life-limited parts (LLPs) HPC 4-9 spools that PTLLC, repair station certificate No. XZ4R084M, improperly repaired and returned to service. Our investigation found some areas of the seal tooth

plasma coating that were thicker than allowed by the CFM56 engine overhaul limits. The investigation also found:

- Seal tooth plasma overspray between the seal teeth, which is not permitted by the engine overhaul manual, and
- Cracks that were missed during the fluorescent penetrant inspection.

These conditions, if not corrected, could cause cracking of the HPC 4-9 spool, which could result in possible uncontained failure of the spool and damage to the airplane.

#### FAA's Determination and Requirements of the Proposed AD

We have evaluated all pertinent information and identified an unsafe condition that is likely to exist or develop on other products of this same type design. We are proposing this AD, which would require removing certain HPC 4-9 spools that have a P/N and SN listed in Table 1 of this proposed AD before accumulating 8,900 cycles since repair at PTLLC or within 1,100 cycles from the effective date of this AD, whichever occurs later.

#### Costs of Compliance

We estimate that this proposed AD would affect 26 engines installed on airplanes of U.S. registry. We also estimate that it would take about 410 work-hours per engine to perform the proposed actions, and that the average labor rate is \$80 per work-hour. Required parts would cost about \$227,500 per engine. Based on these figures, we estimate the total cost of the proposed AD to U.S. operators to be \$6,767,800.

#### 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 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 above, I certify that the proposed AD:

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); and
3. Would 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 regulatory evaluation of the estimated costs to comply with this proposed AD. 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, Safety.

### The Proposed Amendment

Under the authority delegated to me by the Administrator, the Federal Aviation Administration 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:

**CFM International S.A.:** Docket No. FAA-2008-1245; Directorate Identifier 2008-NE-27-AD.

#### Comments Due Date

(a) The Federal Aviation Administration (FAA) must receive comments on this airworthiness directive (AD) action by January 26, 2009.

#### Affected ADs

(b) None.

#### Applicability

(c) This AD applies to CFM International S.A. CFM56-2, CFM56-3, CFM56-5A, CFM56-5B, CFM56-5C, and CFM56-7B series turbofan engines with a high-pressure compressor (HPC) 4-9 spool that has a part number (P/N) and serial number (SN) specified in Table 1 of this AD, installed.

These engines are installed on, but not limited to, Airbus A319, A320, and A340 airplanes and Boeing 737 airplanes.

TABLE 1—HPC 4-9 SPOOLS BY P/N AND SN

HPC 4-9 Spool P/N	HPC 4-9 Spool SN
9513M93G08	MPON1641
1590M29G01	GWN0087D
1590M29G01	GWN00MG2
1590M29G01	GWN011LG
1590M29G01	GWN01285
1590M29G01	GWN021JC
1590M29G01	GWNFY923
1590M29G01	GWNFY824
1590M29G01	GWNPA756
1590M29G01	GWNPG015
1590M29G01	GWNWC515
1590M29G01	GWNWR523
1590M29G01	GWNWT631
1590M29G01	GWNYC495
1588M89G03	GWN03K1R
1588M89G03	GWN03N61
1588M89G03	GWN03N6C
1588M89G03	GWN040L9
1588M89G03	GWN0468N
1588M89G03	GWN05AMO
1277M97G02	GWNE1298
1277M97G02	GWNE1564
1277M97G02	GWNJ7891
1277M97G02	GWNT4187
9513M93G11	GWNB3373
1358M94G01	GWNU0169

#### Unsafe Condition

(d) This AD results from reports of certain HPC 4-9 spools that Propulsion Technology LLC (PTLLC) improperly repaired and returned to service. We are issuing this AD to prevent cracking of the HPC 4-9 spool, which could result in possible uncontained failure of the spool and damage to 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.

#### Removing the HPC 4-9 Spool

(f) Remove HPC 4-9 spools from service that have a P/N and S/N listed in Table 1 of this AD before accumulating 8,900 cycles since repair at PTLLC or within 1,100 cycles from the effective date of this AD, whichever occurs later.

#### Installation Prohibition

(g) After the effective date of this AD, do not install any engine with an HPC 4-9 spool that has a P/N and SN specified in Table 1 of this AD.

#### Alternative Methods of Compliance

(h) The Manager, Engine 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.

#### Related Information

(i) Contact Stephen K. Sheely, Aerospace Engineer, Engine Certification Office, FAA,

Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803; e-mail: [stephen.k.sheely@faa.gov](mailto:stephen.k.sheely@faa.gov); telephone (781) 238-7750; fax (781) 238-7199, for more information about this AD.

Issued in Burlington, Massachusetts, on November 18, 2008.

**Peter A. White,**

*Assistant Manager, Engine and Propeller Directorate, Aircraft Certification Service.*

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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. FAA-2008-1243; Directorate Identifier 2007-SW-03-AD]

**RIN 2120-AA64**

#### Airworthiness Directives; Erickson Air-Crane Incorporated (Erickson) Model S-64F Helicopters

**AGENCY:** Federal Aviation Administration, DOT.

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

**SUMMARY:** This document proposes adopting a new airworthiness directive (AD) for Erickson Model S-64F helicopters. The AD would require inspections for cracking or working rivets in each left and right splice fitting (transition fitting), the pylon bulkhead assembly—canted (bulkhead assembly), the pylon steel strap (strap), and the attaching rotary rudder boom and pylon structure. This proposal is prompted by several reports of cracking in the transition fittings, the bulkhead assembly, and pylon. The actions specified by the proposed AD are intended to detect cracking in the rotary rudder boom or pylon due to fatigue, and to prevent failure from static overload and subsequent loss of control of the helicopter.

**DATES:** Comments must be received on or before January 26, 2009.

**ADDRESSES:** Use one of the following addresses to submit comments on this proposed AD:

- *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-