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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2007-27308; Directorate Identifier 2007-NE-06-AD; Amendment 39-149-7; AD 2007-05-16]

RIN 2120-AA64

Airworthiness Directives; General Electric Aircraft Engines (L) CF34 A17 B/-3B1 Turbofan Engines

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

ACTION: Final rule; request for comments.

SUMMARY: This action supersedes emerately airworthings directive (AD) 2007-04-51 that was sent previously to all known U.S. owner and operator. If GE CF34-3A1/-3B/-3B1 turbofan engines. That action required a onetime visual and tactor direction of certain areas of certain serial number (SN) fan disks for an arc-out defect, within 20 engine flight hours after the effective date of that AD. This AD supersedes AD 2007-67-51 and add neight SNs to the list of suspect fan disks. This AD results from GE discovering eight additional SNs of fan disks suspected of having an arc-out defect, and from the original report that the CF27-3B1 turbofan engine experienced an uncontained fan disk failure during flight open ion. Ver are issuing this AD to prevent an uncontained fan disk failure and airplane damage.

DATES: This AD becomes effective March 12, 2007. The Director of the Federal Register approved the incorporation by respect of certain publications listed in the regulations as of March 12, 2007. We must be ceive an ecomments on this AD by May 7, 2007.

AD RESSEE Use one of the following addresses to comment on this AD.

- OT Deket Web site: Go to http://dms.dot.gov and follow the instructions for sending your comments electronically.
- Government-wide rulemaking Web site: Go to http://www.regulations.gov and follow the instructions for sending your comments electronically.
- Mail: Docket Management Facility; U.S. Department of Transportation, 400 Seventh Street, SW., Nassif Building, Room PL-401, Washington, DC 20590-0001.
- Fax: (202) 493-2251.
- Hand Delivery: Room PL-401 on the plaza level of the Nassif Building, 400 Seventh Street, SW., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

Contact General Electric Company via Lockheed Martin Technology Services, 10525 Chester Road, Suite C, Cincinnati, Ohio 45215, telephone (513) 672-8400, fax (513) 672-8422 for the service information identified in this AD.

FOR FURTHER INFORMATION CONTACT: Tara Chaidez, Aerospace Engineer, Engine Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803, e-mail: tara.chaidez@faa.gov; telephone (781) 238-7773; fax (781) 238-7199.

SUPPLEMENTARY INFORMATION: On February 16, 2007, the FAA issued emergency AD 2007-04-51, that applies to GE CF34-3A1/-3B/-3B1 turbofan engines. That AD requires a owntime visual and tactile inspection of certain areas of certain SN fan disks, within 20 engine flight hours after the effective date of that AD. That AD resulted from a report that a GE CF24-3B cturbofan engine experienced an uncontained fan disk failure during flight operation. After landing the adplane, an inspection of the GE CF34-3B1 engine showed the front section of the agine folied, resulting in the fan, forward cowlings, and fan reverser departing from the engine. The adult he sustained minor fuselage damage. A subsequent inspection of the recovered segments A. C. fan lisk found an electrical arc-out defect at the fracture origin site. The fan disk was marked using the electrochemical etch marking (ECM) procedure during engine assembly. The ECM procedure is performed incorrectly, an arc-out defect can occur. This arc out defect cause during part marking, resulted in the uncontained failure.

This condition, if not corrected, could result in an une ntarted fan disk failure and airplane damage. Since emergency AD 2007-04-51 was issue. GE at cover a eight additional SNs of fan disks suspected of having an arc-out defect.

Relevant Service Information

We have reviewed and approved to tech retreated for the entents of GE Alert Service Bulletin (ASB) No. CF34-BJ S/B 72-A0213, dated February 1, 2007, and Revision 1, dated February 27, 2007, and GE ASB No. CF34-AL S/B 72-A0212, dated February 15, 2007, and Revision 1, dated February 27, 2007, that describe procedures for virtual and tactile inspection of certain areas of certain SN fan disks suspected of having an area but duriet.

FAA's Determination and Lequirements of This AD

Since the unsafe condition described is likely to exist or develop on other engines of the same type design we are issuing this AD to supersede emergency AD 2007-04-51 and to prevent an uncontained for disk failure and airplane damage. This AD requires a onetime visual and tactile inspection of certain as as of certain SN fan disks for an arc-out defect, within 20 engine flight hours after the effective date of this AD. You must use the service information described previously to perfect the actions required by this AD.

FAA's Determination of the Effective Date

Since an unsafe condition exists that requires the immediate adoption of this AD, we have found that notice and opportunity for public comment before issuing this AD are impracticable, and that good cause exists to make the AD effective immediately to all known U.S. owners and operators of GE CF34-3A1/-3B/-3B1 turbofan engines. We are publishing the AD in the Federal Register as an amendment to Section 39.13 of part 39 of the Code of Federal Regulations (14 CFR part 39) to make it effective to all persons.

Interim Action

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

Comments Invited

This AD is a final rule that involves requirements affecting flight safety and was not preceded by notice and an opportunity for public comment. However, we invite you to send us any written relevant data, views, or arguments regarding this AD. Send your comments to an address listed under ADDRESSES. Include "AD Docket No. FAA-2007-27308; Directorate Identifier 2007-NE-06-AD" in the subject line of your comments. We specifically invite comments on the overall regular y, economic, environmental, and energy aspects of the rule that might suggest a need a modify it.

We will post all comments we receive, without change, to http://dms.dot.gox, including any personal information you provide. We will also post a report summarizing each substantiate verbal contact with FAA personnel concerning this AD. Using the search function of the LMS We site, anyone can find and read the comments in any of our dockets, including the large of the individual who sent the comment (or signed the comment on behalf of an association business, about 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) or you may visit http://dms.doc.gov.

Examining the AD Docket

You may examine the docket that contains the docket many emme as received, and any final disposition in person at the Docket Management acility between a.m. and 5 p.m., Monday through Friday, except Federal holidays. The Docket Office (1.epho e (800) 647-5227) is located on the plaza level of the Department of Transports of Nassif Building at the street address stated in ADDRESSES. Comments will be available in the AD tacket shortly after the DMS receives them.

Authority for This Rulemaking

Title 49 of the United Stars Cook 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 stail to cope of the Agency's authority.

We are issuing the ruler aking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701, "Coneral requirements." Under that section, Congress charges the FAA with promoting safe flight of creat aircraft in air commerce by prescribing regulations for practices, methods, and procedure the Administrator finds necessary for safety in air commerce. This regulation is within the sope of that authority because it addresses an unsafe condition that is likely to exist or development and condition that is likely to exist or development.

Regulary 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 the 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); 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

Under the authority delegated to me by the Administrator, the Federal Aviation Administration amends part 39 of the Federal Aviation Regulations (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 arwordiness ective





AIRWORTHINESS DIRECTIVE

www.faa.gov/aircraft/safety/alerts/ www.gpoaccess.gov/fr/advanced.html

2007-05-16 General Electric Aircraft Engines: Amendment 39-14977. Docket No. FAA-2007-27308; Directorate Identifier 2007-NE-06-AD.

Effective Date

(a) This airworthiness directive (AD) becomes effective March 12, 2007.

Affected ADs

(b) This AD supersedes emergency AD 2007-04-51.

Applicability

(c) This AD applies to General Electric Aircraft Engines (GE) F34-3A1 3B/-3B1 turbofan engines that have fan disks with serial numbers (SNs) listed in Table 1 of the AD.

Table 1 - Fan Disk SNs and Last Known Associa Engine Ferial Number (ESN).

SN (Fan Disk)	ESN ou rena
GEE148JH	872787
GEE01629	807168
GEE015.8	807188
GEY 47MF	807620
CTE1- VA	807622
GE 147V.	807624
ÆE147VC	807625
G E148JG	807633
GEE145LL	872526
GEE145NK	872545
GEE1466F	872563
GEE1466L	872568
GEE146H3	872599
GEE146KD	872604

SN (Fan Disk)	ESN (Current)
GEE146N7	872634
GEE147N7	872705
GEE147N8	872709
GEE14818	872727
GEE14815	872730
GEE1480J	872731
GEE1485J	872745
GEE1480F	872750
GEE14885	872763
GEE148EJ	872780
GEE148FT	872785
GEE148ER	872790
GEE148PN	872804
GEE148RN	872811
GEE148TW	8 281/
GEE03675	DAT
GEE148R0	SPARE
GEE148VT	972830
GEE14 WC	872837
GE (F9G	872841
F11 58	872846
GF AF9GA	872849
ÆE1F9WN	872857
GLE1FA22	872866
GEE1FA6H	872886

- d) For ren rence, affected regional jet fan disk part numbers (P/Ns) are 5922T01G04, 5922T01G05, 78T57G01, 6078T57G02, 6078T57G03, 6078T57G04, 6078T57G05, and 6078T57G05
- (e) For reference, affected business jet fan disk P/Ns are 5921T18G01, 5921T18G09, 5921T18G10, 5921T54G01, 5922T01G02, 5922T01G04, 5922T01G05, 6020T62G04, 6020T62G05, 6078T00G01, 6078T57G01, 6078T57G02, 6078T57G03, 6078T57G04, 6078T57G05, and 6078T57G06.
- (f) These engines are installed on, but not limited to, Bombardier, Inc. CL-600-2B16 (CL-601-3R Variant), CL-600-2B16 (CL-604 Variant), and CL-600-2B19 (Regional Jet Series 100 and 440) model airplanes.

Unsafe Condition

(g) This AD results from GE discovering eight additional SNs of fan disks suspected of having an arc-out defect, and from the original report that a GE CF34-3B1 turbofan engine experienced an uncontained fan disk failure during flight operation. We are issuing this AD to prevent an uncontained fan disk failure and airplane damage.

Compliance

(h) You are responsible for having the actions required by this AD performed within 20 engine flight hours after the effective date of this AD, unless the actions have already been doce.

Inspection of the Fan Disk

- (i) Perform a onetime visual and tactile inspection of the bore area on e 39 for disks asted in Table 1 of this AD, that have not had a shop-level inspection.
- (j) For regional jet engine models CF34-3A1/-3B1, use paragraph of through 2 3.(2)(h) of the Accomplishment Instructions of GE Alert Service Bulletin (ASB) to CF34 L State 72-A0232, Revision 1, dated February 27, 2007, to do the inspections.
- (k) For business jet engine models CF34-3A1/-3B, use tragraph 3.A though 3.B.(2)(h) of the Accomplishment Instructions of GE ASB No. CF34-BJ \$3.72-A 213, usion 1, dated February 27, 2007, to do the inspections.

Previous Inspection Credit

- (1) Previous inspection credit is allowed
- (1) For regional jet engine models 6.34-3 1/-3L Laspected using paragraphs 3.A through 3.B.(2)(g) of the Accomplishment Instruction 25F ASB No. CF34-AL S/B 72-A0232, dated February 15, 2007, for the fan disk 3Ns Inc. of in emergency AD 2007-04-51.
- (2) For business jet engine models CF3-3A1/-3B, inspected using paragraphs 3.A through 3.B.(2)(g) of the Accomplish, and Irratuctions of GE ASB No. CF34-BJ S/B 72-A0213, dated February 15, 2007, for the fan data 3Ns light d in emergency AD 2007-04-51.
- (m) Fan disks lister in Table 1 Stlas AD that have already had a full visual inspection, eddy current inspection, an fluore cent penetrant inspection using GE CF34-3 (BJ) Heavy Maintenance Manual SEI-782, Tectic 12-21-00, or using GE CF34-3 (RJ) Engine Manual SEI-756, Section 72-21-00, are considered in compliance with this AD.

Alternative Nothods of Compliance

(n) The Tynager, Engine Certification Office, has the authority to approve alternative methods of commance of this AD if requested using the procedures found in 14 CFR 39.19.

Related Imormation

- (o) AD 2006-05-04, dated March 3, 2006, also addresses the subject of this AD. GE ASB No. CF34-BJ S/B 72-A0088, dated August 21, 2000, and GE ASB No. CF34-AL S/B 72-A0103, dated August 4, 2000, pertain to the subject of this AD.
- (p) For further information, contact: Tara Chaidez, Aerospace Engineer, Engine Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803, e-mail: tara.chaidez@faa.gov; telephone (781) 238-7773; fax (781) 238-7199.

Material Incorporated by Reference

(q) You must use the service information specified in Table 2 of this AD to perform the actions required by this AD. The Director of the Federal Register approved the incorporation by reference of the documents listed in Table 2 of this AD in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. You can get a copy from General Electric Company via Lockheed Martin Technology Services, 10525 Chester Road, Suite C, Cincinnati, Ohio 45215, telephone (513) 672-8400, fax (513) 672-8422. You may review copies at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA; or at the National Archives and Records Administration (NARA). For information on the availability of this http://www.archives.gov/federal-register/cfr/ibr-locations.html.

Table 2 – Incorporation by Reference

GE Aircraft Engines Alert Service Bulletin No.	Page	Revision	Date
CF34-BJ S/B 72-A0213 Total Pages: 12	All	Original	February 5, 2007
CF34-BJ S/B 72-A0213 Total Pages: 13	All		February 27, 2007
CF34-AL S/B 72-A0232 Total Pages: 12	All	Original	February 15, 2007
CF34-AL S/B 72-A0232 Total Pages: 13	All		February 27, 2007

Issued in Burlington, Marachuses, on Poruary 28, 2007.

Peter A. White,

Acting Manager, Engine and Propuler Dectorate, Aircraft Certification Service.

[FR Doc. E7-3833 F ed 3-6-7; 8:4. m]