

DEPARTMENT OF TRANSPORTATION**Federal Aviation Administration****14 CFR Part 39**

[Docket No. 2003–NE–58–AD; Amendment 39–14030; AD 2005–07–06]

RIN 2120–AA64

Airworthiness Directives; General Electric Company CF34–8C1 Series and CF34–8C5 Series Turbofan Engines

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule; request for comments.

SUMMARY: The FAA is superseding an existing airworthiness directive (AD) for General Electric Company (GE) CF34–8C1 series and CF34–8C5 series turbofan engines, with certain serial number (SN) master variable geometry (VG) actuators installed. That AD currently requires initial and repetitive reviews of the airplane Maintenance Data Computer (MDC) for master VG actuator fault messages, and if the MDC is inoperative, reviews of the Engine Indication and Crew Alerting System (EICAS) for fault messages. That AD also requires replacing actuators reported faulty by the Full Authority Digital Engine Control (FADEC). This AD requires those same actions, and expands the applicability to additional actuators by part number (P/N) and SN. This AD also prohibits installation of affected master VG actuators onto any CF34–8C1 and CF34–8C5 engine after the effective date of this AD. This AD results from the need to add to the list of affected parts, master VG actuators made by parts manufacturer approval (PMA). We are issuing this AD to prevent dual-channel electrical signal faults in the VG master actuator, which will cause an uncommanded reduction of thrust to idle with a subsequent loss of the ability to advance thrust above idle, and which will result in a multiengine loss of thrust if dual-channel faults occur on more than one engine simultaneously.

DATES: Effective April 15, 2005. The Director of the Federal Register approved the incorporation by reference of certain publications listed in the regulations as of April 15, 2005.

We must receive any comments on this AD by May 31, 2005.

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

- *By mail:* Federal Aviation Administration (FAA), New England Region, Office of the Regional Counsel,

Attention: Rules Docket No. 2003–NE–58–AD, 12 New England Executive Park, Burlington, MA 01803–5299.

- *By fax:* (781) 238–7055.

- *By e-mail:* 9-ane-adcomment@faa.gov.

You can get the service information referenced in this AD 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 examine the AD docket, by appointment, at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA.

FOR FURTHER INFORMATION CONTACT:

Robert Grant, Aerospace Engineer, Aircraft Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA; telephone (781) 238–7757; fax (781) 238–7199.

SUPPLEMENTARY INFORMATION: On December 17, 2003, the FAA issued AD 2003–26–05, Amendment 39–13402 (69 FR 2, January 2, 2004). That AD requires initial and repetitive reviews of the airplane Maintenance Data Computer (MDC) for fault messages for the master VG actuator, and if the MDC is inoperative, reviews of the Engine Indication and Crew Alerting System (EICAS) for fault messages. That AD also requires replacing actuators reported faulty by the Full Authority Digital Engine Control (FADEC). That AD resulted from reports of nine master VG actuators with linear variable differential transformers (LVDTs) with single-channel electrical signal faults sent to the MDC and to the FADEC. One of those master VG actuators also experienced a failure of the second LVDT channel 17 days after the first single-channel fault report, resulting in the FADEC commanding the engine power to idle. The manufacturer's investigation revealed LVDT coil wire deformation and breakage, caused by thermal expansion of potting material. That condition, if not corrected, could result in dual-channel electrical signal faults in the VG master actuator, which will cause an uncommanded reduction of thrust to idle with a subsequent loss of the ability to advance thrust above idle, and which will result in a multiengine loss of thrust if dual-channel faults occur on more than one engine simultaneously.

Actions Since We Issued AD 2003–26–05

Since we issued AD 2003–26–05, we have become aware of a PMA holder,

Arkwin Industries, Inc., that has master VG actuators in service with the same LVDTs installed. The same unsafe condition described previously for master VG actuators SN APM238AE, and SNs APM242AE and up is likely to exist or develop on these additional PMA master VG actuators. We also received an additional 45 reports of single-channel electrical signal faults. The PMA P/N and SNs of the additional master VG actuators are P/Ns 1211508–002, SN 238AE and SNs 241AE and up. These actuators also have GE P/N 4120T02P02 marked on them.

Relevant Service Information

We have reviewed and approved the technical contents of GE Alert Service Bulletin (ASB) No. CF34–8C–AL S/B 75–A0007, Revision 3, dated February 14, 2005, that describes procedures for:

- Initial and repetitive reviews of the airplane MDC for fault messages from the master VG actuator,
- Reviews of the EICAS for fault messages if the MDC is inoperative, and
- Replacing actuators reported faulty by the FADEC.

FAA's Determination and Requirements of This AD

The unsafe condition described previously is likely to exist or develop on other CF34–8C1 series and CF34–8C5 series turbofan engines of the same type design. We are issuing this AD to prevent dual-channel electrical signal faults in the VG master actuator, which will cause an uncommanded reduction of thrust to idle with a subsequent loss of the ability to advance thrust above idle, and which will result in a multiengine loss of thrust if dual-channel faults occur on more than one engine simultaneously.

This AD requires:

- An initial review within 10 days after the effective date of the AD, of the airplane MDC for fault messages for the master VG actuator, and if the MDC is inoperative, a review of the EICAS for fault messages, and replacement of actuators reported faulty by the FADEC.
- The same reviews, repetitively, at intervals not to exceed 10 days, and replacement of actuators reported faulty by the FADEC either before further flight or within 10 days of the first fault occurrence, based on requirements defined in the service information described previously, for the actual fault reported.

- After the effective date of this AD, do not install any master VG actuator that has a part number and serial number listed in this AD onto any engine.

You must use the service information described previously to perform 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 for making this amendment effective in less than 30 days.

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. 2003-NE-58-AD" in the subject line of your comments. If you want us to acknowledge receipt of your mailed comments, send us a self-addressed, stamped postcard with the docket number written on it; we will date-stamp your postcard and mail it back to you. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of the rule that might suggest a need to modify it. If a person contacts us verbally, and that contact relates to a substantive part of this AD, we will summarize the contact and place the summary in the docket. We will consider all comments received by the closing date and may amend the AD in light of those comments.

Examining the AD Docket

You may examine the AD Docket (including any comments and service information), by appointment, between 8 a.m. and 4:30 p.m., Monday through Friday, except Federal holidays. See **ADDRESSES** for the location.

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 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 by sending a request to us at the address listed under **ADDRESSES**. Include "AD Docket No. 2003-NE-58-AD" in your request.

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 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 removing Amendment 39-13402, 69 FR 2, January 2, 2004, and by adding a new airworthiness directive, Amendment 39-14030, to read as follows:

2005-07-06 General Electric Company:
Amendment 39-14030. Docket No. 2003-NE-58-AD.

Effective Date

(a) This airworthiness directive (AD) becomes effective April 15, 2005.

Affected ADs

(b) This AD supersedes AD 2003-26-05, Amendment 39-13402.

Applicability

(c) This AD applies to General Electric Company (GE) CF34-8C1 series and CF34-8C5 series turbofan engines, with master variable geometry (VG) actuators, GE part number 4120T02P02, serial number (SN) APM238AE, and SNs APM242AE and up; and Arkwin Industries, Inc. Parts Manufacturer Approval (PMA) part number 1211508-002, SN 238AE and SNs 242AE and up installed. The Arkwin PMA parts are also marked with PN 4120T02P02. These engines are installed on, but not limited to, Bombardier Inc. Model CL-600-2C10 (CRJ-700 & -701) and CL-600-2D24 (CRJ-900) airplanes.

Unsafe Condition

(d) This AD results from the need to add to the list of affected parts, master VG actuators made by parts PMA. We are issuing this AD to prevent dual-channel electrical signal faults in the VG master actuator, which will cause an uncommanded reduction of thrust to idle with a subsequent loss of the ability to advance thrust above idle, and which will result in a multiengine loss of thrust if dual-channel faults occur on more than one engine simultaneously.

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) After the effective date of this AD, do not install any master VG actuators specified in this AD onto any engine.

Initial Review

(g) Within 10 days after the effective date of this AD, initially review the Maintenance Data Computer (MDC) fault history, and if the MDC is inoperative, review the Engine Indication and Crew Alerting System (EICAS) for fault messages, and replace actuators with faults reported by the FADEC. Follow the review and replacement requirements of paragraph 3 of the Accomplishment Instructions of GE Alert Service Bulletin (ASB) No. CF34-8C-AL S/B 75-A0007, Revision 3, dated February 14, 2005.

Repetitive Review

(h) At intervals not to exceed 10 days, repetitively review the MDC fault history, and if the MDC is inoperative, review the EICAS for fault messages, and replace actuators with faults reported by the FADEC. Follow the review and replacement requirements of paragraph 3 of the Accomplishment Instructions of GE ASB No. CF34-8C-AL S/B 75-A0007, Revision 3, dated February 14, 2005.

Optional Terminating Action

(i) Replacing an affected master VG Actuator with a master VG actuator not specified in this AD is terminating action for

the repetitive inspections requirement specified in paragraph (h) of this AD for that actuator.

Credit for Actions Previously Completed

(j) Inspections completed before the effective date of this AD using GE ASB No. CF34-8C-AL S/B 75-A0007, Revision 1 dated November 7, 2003; or Revision 2 dated December 16, 2004; or Revision 3 dated February 14, 2005; are acceptable for compliance with the corresponding inspection in this AD.

Alternative Methods of Compliance

(k) 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.

Special Flight Permits

(l) Under 39.23, we impose the following conditions and limitations on the issuance and use of Special Flight Permits for this AD:

(1) If both engines report FADEC fault 1 messages at the same time, whether intermittent or continuous, review the MDC for master VG actuator faults before further flight. If actuator faults are still present for both engines, then replace at least one master VG actuator before further flight.

(2) If a master VG actuator switches channels, replace the actuator before further flight.

Material Incorporated by Reference

(m) You must use GE Alert Service Bulletin No. CF34-8C-AL S/B 75-A0007, Revision 3, dated February 14, 2005, to perform the reviews and actuator dispositions required by this AD. The Director of the Federal Register approved the incorporation by reference of GE Alert Service Bulletin No. CF34-8C-AL S/B 75-A0007, Revision 3, dated February 14, 2005, under 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 Federal Aviation Administration (FAA), New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA 01803-5299; 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/code_of_federal_regulations/ibr_locations.html.

Related Information

(n) None.

Issued in Burlington, Massachusetts, on March 23, 2005.

Peter A. White,

Acting Manager, Engine and Propeller Directorate, Aircraft Certification Service.
[FR Doc. 05-6247 Filed 3-30-05; 8:45 am]

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2004-18876; Directorate Identifier 2003-NM-254-AD; Amendment 39-14032; AD 2005-07-08]

RIN 2120-AA64

Airworthiness Directives; Boeing Model 757-200 and -200PF Series Airplanes

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

ACTION: Final rule.

SUMMARY: The FAA is adopting a new airworthiness directive (AD) for certain Boeing Model 757-200 and -200PF series airplanes. This AD requires repetitive inspections and audible tap tests of the upper and lower skins of the trailing edge wedges on certain slats, and related investigative and corrective actions if necessary. This AD also provides an optional terminating action for the repetitive inspections and audible tap tests. This AD is prompted by a report of damage to the No. 4 leading edge slat. We are issuing this AD to prevent delamination of the leading edge slats, possible loss of pieces of the trailing edge wedge assembly during flight, reduction of the reduced maneuver and stall margins, and consequent reduced controllability of the airplane.

DATES: This AD becomes effective May 5, 2005.

The incorporation by reference of a certain publication listed in the AD is approved by the Director of the Federal Register as of May 5, 2005.

ADDRESSES: For service information identified in this AD, contact Boeing Commercial Airplanes, P.O. Box 3707, Seattle, Washington 98124-2207. You can examine this information 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/code_of_federal_regulations/ibr_locations.html.

Docket: The AD docket contains the proposed AD, comments, and any final disposition. You can examine the AD docket on the Internet at <http://dms.dot.gov>, or in person at the Docket Management Facility office between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The Docket Management Facility office

(telephone (800) 647-5227) is located on the plaza level of the Nassif Building at the U.S. Department of Transportation, 400 Seventh Street SW., room PL-401, Washington, DC. This docket number is FAA-2004-18876; the directorate identifier for this docket is 2003-NM-254-AD.

FOR FURTHER INFORMATION CONTACT:

Dennis Stremick, Aerospace Engineer, Airframe Branch, ANM-120S, FAA, Seattle Aircraft Certification Office, 1601 Lind Avenue, SW., Renton, Washington 98055-4056; telephone (425) 917-6450; fax (425) 914-6590.

SUPPLEMENTARY INFORMATION: The FAA proposed to amend 14 CFR Part 39 with an AD for certain Boeing Model 757-200 and -200PF series airplanes. That action, published in the **Federal Register** on August 17, 2004 (69 FR 51015), proposed to require repetitive inspections and audible tap tests of the upper and lower skins of the trailing edge wedges on certain slats, and related investigative and corrective actions if necessary. The proposed AD also provided an optional terminating action for the repetitive inspections and audible tap tests.

Comments

We provided the public the opportunity to participate in the development of this AD. We have considered the comments that have been submitted on the proposed AD.

Supportive Comment

One commenter supports the proposed AD.

Request To Correct Typographical Error in Applicability

One commenter requests that the typographical error in paragraph (c), Applicability, of the proposed AD, be corrected. The Applicability in the proposed AD states that the AD applies to Boeing Model 737-200 and -200F series airplanes, as listed in Boeing Alert Service Bulletin 757-57A0063, dated June 26, 2003. The commenter states that the reference to Model 737-200 and -200F series airplanes should be corrected to avoid confusion between the referenced service bulletin and proposed AD.

We agree and the Applicability section of this AD has been corrected to reference "Boeing Model 757-200 and -200PF series airplanes identified in Boeing Alert Service Bulletin 757-57A0063. * * *" We discovered this error after the proposed AD was published. We find that our intent in the proposed AD was clear, as all other references throughout the proposed AD were correct, and the referenced service