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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2008-0821; Directorate Identifier 2008-NE-20-AD; Am Julie 39-1, 34; AD 2009-24-06]

RIN 2120-AA64

Airworthiness Directives; General Electric Company (GE) (134-8. Serie Turbofan Engines

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

ACTION: Final rule.

SUMMARY: The FAA is superseding an easting air arthiness directive (AD) for GE CF34-8E series turbofan engines with certain part number (P/N) full authority digital electronic controls (FADECs) installed. That AD currently in tures removing certain P/N FADECs. This superseding AD requires removal of 12 more It Ns of FA ECs. This AD results from 20 additional reports received of loss of thrust control event since AD 2008-16-01 was issued. We are issuing this AD to prevent loss of thrust control of the air are.

DATES: This AD become effective December 28, 2009.

ADDRESSES: the Doc at Operations office is located at Docket Management Facility, U.S. Department of Canaporta on, 1200 New Jersey Avenue SE., West Building Ground Floor, Room W12-140 Washington, P. 20590-0001.

FOR URTHE, UNFORMATION CONTACT: Alan Strom, Aerospace Engineer, Engine Certification Office, FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, 4A 01803; e-mail: alan.strom@faa.gov; telephone (781) 238-7143; fax (781) 238-7199.

SUPPLEMENTARY INFORMATION: The FAA proposed to amend 14 CFR part 39 by superseding AD 2008-16-01, Amendment 39-15619 (73 FR 44628, July 31, 2008), with a proposed AD. The proposed AD applies to GE CF34-8E series turbofan engines with FADECs, P/Ns 4120T00P31, 4120T00P32, 4120T00P41, 4120T00P42, 4120T00P43, 4120T00P44, 4120T00P47, 4120T00P48, 111E9320G32, 111E9320G33, 111E9320G42, 111E9320G43, 111E9320G44, 111E9320G45, 111E9320G48, or 111E9320G49 installed. We published the proposed AD in the Federal Register on August 24, 2009 (74 FR 42610). That action proposed to require removal of 12 more P/Ns of FADECs than what AD 2008-16-01 required to be removed.

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 A. We we considered the comment received. The commenter supports the proposal.

Conclusion

We have carefully reviewed the available data, including the contract red, an determined that air safety and the public interest require adopting the AD as proposition.

Costs of Compliance

We estimate that this AD will affect 273 engines installed of airplant of U.S. registry. We also estimate that it will take about one work-hour per engine to perform a actions, and that the average labor rate is \$80 per work-hour, with a parts cost per algine of \$5. Band on these figures, we estimate the total cost of the AD to U.S. operates to \$36,855

Authority for This Rulemaking

Title 49 of the United States Code specific the FLA'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 support of the Agency's authority.

Programs, describes in more detail the sope 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. The er that section, Congress charges the FAA with promoting safe flight or wil aircraft in air commerce by prescribing regulations for practices, methods, and procedures to Administrator finds necessary for safety in air commerce. This regulation is within a cope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

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have described 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, 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 removing Amendment 39-15619 (73 L. 1628, 17, 2008), and by adding a new airworthiness directive, Amendment 39-16094, to read as Nows:



Al

Aircraft Certification Service

AIRWORTHINESS DIRECTIVE

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

2009-24-06 General Electric Company: Amendment 39-16094. Docket No. FAA-2008-0821; Directorate Identifier 2008-NE-20-AD.

Effective Date

FAA

(a) This airworthiness directive (AD) becomes effective December 28, 2009.

Affected ADs

(b) This AD supersedes AD 2008-16-01, Amendment 39-15619,

Applicability

(c) This AD applies to General Electric Company (GE) CF es tue fan engines with 1-8E full authority digital electronic controls (FADECs), part number (P/Ns)20T00P31, 4120T00P32, 4120T00P41, 4120T00P42, 4120T00P43, 4120T00P44, 4<u>12</u>0T0 P47, 41 0T00P48, 111E9320G32, 111E9320G33, 111E9320G42, 111E9320G43, 111E93 11MG45, 111E9320G48, or 111E9320G49 installed. These engines are installed o, Empresa Brasileira de , but not mitel Aeronautica S.A. (EMBRAER) ERJ 170 series

Unsafe Condition

(d) This AD results from 20 additional register of loss of thrust control events since AD 2008-16-01 was issued. We are issuing the AD to prevent loss of thrust control of the airplane.

Compliance

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

Removal of CF 4-8E F. DECs

(f) Within 6c elight fours time-in-service (TIS) after the effective date of this AD, remove FADE (P/Ns. 120100P31, 4120T00P32, 4120T00P41, 4120T00P42, 4120T00P43, 4120T00P44, 4120T00P48, 111E9320G32, 111E9320G33, 111E9320G42, 111E9320G43, 111E9320G45, 111E9320G45, 111E9320G48, and 111E9320G49.

Installation Prohibition

(g) After 660 flight hours TIS after the effective date of this AD, do not install any FADEC P/N 4120T00P31, 4120T00P32, 4120T00P41, 4120T00P42, 4120T00P43, 4120T00P44, 4120T00P47, 4120T00P48, 111E9320G32, 111E9320G33, 111E9320G42, 111E9320G43, 111E9320G44, 111E9320G45, 111E9320G48, or 111E9320G49 onto any GE CF34-8E series engine.

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 Alan Strom, Aerospace Engineer, Engine Certification Office, FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803; e-mail: alan.strom@faa.gov; telephone (781) 238-7143; fax (781) 238-7199, for more information about this AD.
- (j) Guidance on removal and replacement with an FAA-approved FADEC software version be found in GE Alert Service Bulletin No. CF34-8E-AL S/B 73-A0020, dated November 12, 2003. For a copy of this service information, contact General Electric Company, GE Aviator, Rec. 285, 1 Newmann Way, Cincinnati, OH 45215, telephone (513) 552-3272; fax (513) 52-3 29; -mail: geae.aoc@ge.com.

Material Incorporated by Reference

(k) None.

Issued in Burlington, Massachusetts, on November 10, 199. Peter A. White,

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

