

Issued in Burlington, Massachusetts, on October 1, 2001.

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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. 98-ANE-38-AD]

RIN 2120-AA64

#### **Airworthiness Directives; Airworthiness Directives; CFM International (CFMI) CFM56-2, -2A, -2B, -3, -3B, -3C, -5, -5B, -5C, and -7B Series Turbofan Engines**

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

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

**SUMMARY:** The Federal Aviation Administration (FAA) proposes to supersede an existing airworthiness directive (AD), that is applicable to certain CFM International (CFMI) CFM56 series turbofan engines, that currently requires revisions to the Airworthiness Limitations Section of applicable Engine Shop Manuals (ESM's) to include required enhanced inspection of selected critical life-limited parts at each piece-part exposure. This proposal would modify the airworthiness limitations section of the manufacturer's manual and an air carrier's approved continuous airworthiness maintenance program to incorporate additional inspection requirements. The actions specified by this proposed AD are intended to prevent critical life-limited rotating engine part failure, which could result in an uncontained engine failure and damage to the airplane.

**DATES:** Comments must be received by December 4, 2001.

**ADDRESSES:** Submit comments in triplicate to the Federal Aviation Administration (FAA), New England Region, Office of the Regional Counsel, Attention: Rules Docket No. 98-ANE-38-AD, 12 New England Executive Park, Burlington, MA 01803-5299. Comments may also be sent via the Internet using the following address: "9-ane-adcomment@faa.gov". Comments sent via the Internet must contain the docket number in the subject line. Comments may be inspected at this location by appointment between 8:00 a.m. and 4:30

p.m., Monday through Friday, except Federal holidays.

#### **FOR FURTHER INFORMATION CONTACT:**

Diane Cook, Aerospace Engineer, Engine Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803-5299; telephone (781) 238-7138, fax (781) 238-7199.

#### **SUPPLEMENTARY INFORMATION:**

##### **Comments Invited**

Interested persons are invited to participate in the making of the proposed rule by submitting such written data, views, or arguments as they may desire. Communications should identify the Rules Docket number and be submitted in triplicate to the address specified above. All communications received on or before the closing date for comments, specified above, will be considered before taking action on the proposed rule. The proposals contained in this action may be changed in light of the comments received.

Comments are specifically invited on the overall regulatory, economic, environmental, and energy aspects of the proposed rule. All comments submitted will be available, both before and after the closing date for comments, in the Rules Docket for examination by interested persons. A report summarizing each FAA-public contact concerned with the substance of this proposal will be filed in the Rules Docket.

Commenters wishing the FAA to acknowledge receipt of their comments submitted in response to this action must submit a self-addressed, stamped postcard on which the following statement is made: "Comments to Docket Number 98-ANE-38-AD." The postcard will be date stamped and returned to the commenter.

##### **Availability of NPRM's**

Any person may obtain a copy of this NPRM by submitting a request to the FAA, New England Region, Office of the Regional Counsel, Attention: Rules Docket No. 98-ANE-38-AD, 12 New England Executive Park, Burlington, MA 01803-5299.

##### **Discussion**

On June 13, 2000, the FAA issued AD 2000-12-01, Amendment 39-11779 (65 FR 37031, June 13, 2000), to require revisions to the Airworthiness Limitations Section of the applicable Engine Shop Manuals (ESM's) for CFMI CFM56-2, -2A, -2B, -3, -3B, -3C -5, -5B, -5C, and -7B series turbofan engines by adding additional focused inspection procedures and increasing

the applicability of the CFM56 engine models requiring enhanced inspection of selected critical life-limited parts at each piece-part exposure.

##### **Additional Inspection Procedures**

Since the issuance of that AD, CFMI has identified additional critical life-limited parts requiring enhanced inspections and has developed additional focused inspection procedures applicable to the High Pressure Turbine (HPT) disk and the HPT front rotating air seal. The mandatory inspections are needed to identify those critical rotating parts with conditions, which if allowed to continue in service, could result in uncontained failures. This proposal would modify the Airworthiness Limitations Section of the applicable ESMs to incorporate additional inspection requirements.

##### **Proposed Actions**

Since an unsafe condition has been identified that is likely to exist or develop on other products of this same type design, the proposed AD would supersede AD 2001-12-01 to add additional critical life-limited parts requiring enhanced inspections at piece part opportunity. The inspections would be required at each piece-part opportunity.

##### **Economic Analysis**

The FAA estimates that 5,100 CFM56 engines installed on airplanes of US registry would be affected by this proposed AD and that there are approximately 2,300 piece part annual inspections that would be required. It would take approximately 2,775 work hours to accomplish these inspections. The average labor rate is \$60 per work hour. The total estimated annual cost of the proposed new inspections on US operators is expected to be approximately \$166,500.

##### **Regulatory Analysis**

This proposed rule does not have federalism implications, as defined in Executive Order 13132, because it 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. Accordingly, the FAA has not consulted with state authorities prior to publication of this proposed rule.

For the reasons discussed above, I certify that this proposed 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) if promulgated, 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. A copy of the draft regulatory evaluation prepared for this action is contained in the Rules Docket. A copy of it may be obtained by contacting the Rules Docket at the location provided under the caption **ADDRESSES**.

#### List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Safety.

#### The Proposed Amendment

Accordingly, pursuant to the authority delegated to me by the Administrator, the Federal Aviation Administration proposes to amend 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. Section 39.13 is amended by removing Amendment 39–11779 (65 FR 3731, June 13, 2000), and by adding a new airworthiness directive, to read as follows:

**CFM International:** Docket No. 98–ANE–38–AD. Supersedes AD 2000–12–01, Amendment 39–11779.

**Applicability:** CFM International (CFMI) CFM56–2, –2A, –2B, –3, –3B, –3C, –5, –5B, –5C, and –7B series turbofan engines, installed on but not limited to McDonnell Douglas DC–8 series, Boeing 737 series, Airbus Industrie A319, A320, A321, and A340 series, as well as Boeing E–3, E–6, and KC–135 (military) series airplanes.

**Note 1:** This AD applies to each engine identified in the preceding applicability provision, regardless of whether it has been modified, altered, or repaired in the area subject to the requirements of this AD. For engines that have been modified, altered, or repaired so that the performance of the requirements of this AD is affected, the owner/operator must request approval for an alternative method of compliance in accordance with paragraph (c) of this AD. The request should include an assessment of the effect of the modification, alteration, or repair on the unsafe condition addressed by this AD; and, if the unsafe condition has not

been eliminated, the request should include specific proposed actions to address it.

#### Compliance

Compliance with this AD is required as indicated, unless already done.

To prevent critical life-limited rotating engine part failure, which could result in an uncontained engine failure and damage to the airplane, accomplish the following:

#### Inspections

(a) Within the next 30 days after the effective date of this AD, revise the Airworthiness Limitations Section (chapter 05–00–00) of Engine Shop Manual (ESM) CFMI–TP.SM.4, for CFM56–2 series engines, ESM CFMI–TP.SM.6, for CFM56–2A/–2B series engines, ESM CFMI–TP.SM.5, for CFM56–3/–3B/–3C series engines, ESM CFMI–TP.SM.7 for CFM56–5 series engines, ESM CFMI–TP.SM.9 for CFM56–5B series engines, ESM CFMI–TP.SM.8 for CFM56–5C series engines, and ESM CFMI–TP.SM.10 for CFM56–7B series engines, and for air carrier operations, revise the approved continuous airworthiness maintenance program, by adding the following:

#### “MANDATORY INSPECTIONS

(1) Perform inspections of the following parts at each piece-part opportunity in accordance with the Inspection/Check section instructions provided in the applicable manual sections listed below:

Engine models	Part name	Engine Manual Section	Inspection
All .....	Fan Disk (All Part Number (P/N) .....	72–21–03	Disk Fluorescent Penetrant Inspection (FPI) and Disk Bore and Dovetail Eddy Current Inspection (ECI).
All .....	Fan Shaft (All P/N) .....	72–22–01	Magnetic Penetrant Inspection (MPI).
All .....	HPT Disk (All P/N) .....	75–52–02	FPI, Disk Bore ECI and Bolt Hole(s) ECI.
All .....	HPT Front Rotating Air Seal (All P/N) .....	72–52–03	FPI, Seal Bore ECI and Bolt Hole(s) ECI.
All .....	HPC Stage 1–2 Spool (All P/N) .....	72–31–04	FPI.
All .....	HPC Stage 3 Disk (All P/N) .....	72–31–05	FPI.
All .....	HPC Stage 4–9 Spool (All P/N) .....	72–31–06	FPI.
All .....	HPC Front Shaft (All P/N) .....	72–31–07	FPI.
All .....	HPC Compressor Rear (CDP) Air Seal (All P/N).	72–52–03	FPI.
All .....	LPT Stage 1 Disk .....	72–54–03	FPI.
All .....	LPT Stage 2 Disk .....	72–54–03	FPI.
All .....	LPT Stage 3 Disk .....	72–54–03	FPI.
All .....	LPT Stage 4 Disk .....	72–54–03	FPI.
All .....	LPT Rotor Support .....	72–54–05	FPI.
All .....	LPT Shaft .....	72–55–01	FPI.
All .....	LPT Stub Shaft .....	72–52–03	FPI.

(2) For the purposes of these mandatory inspections, piece-part opportunity means:

(i) The part is considered completely disassembled when accomplished in accordance with the disassembly instructions in the manufacturer's engine manual; and

(ii) The part has accumulated more than 100 cycles in service since the last piece-part opportunity inspection, provided that the part was not damaged or related to the cause for its removal from the engine.”

(b) Except as provided in paragraph (c) of this AD, and notwithstanding contrary provisions in section 43.16 of the Federal Aviation Regulations (14 CFR 43.16), these

mandatory inspections shall be performed only in accordance with the Time Limits section of the manufacturer's ESM.

#### Alternative Methods of Compliance

(c) An alternative method of compliance or adjustment of the compliance time that provides an acceptable level of safety may be used if approved by the Engine Certification Office (ECO). Operators shall submit their requests through an appropriate FAA Principal Maintenance Inspector (PMI), who may add comments and then send it to the ECO.

**Note 2:** Information concerning the existence of approved alternative methods of compliance with this airworthiness directive, if any, may be obtained from the ECO.

#### Special Flight Permits

(d) Special flight permits may be issued in accordance with sections 21.197 and 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199) to operate the airplane to a location where the requirements of this AD can be accomplished.

### Continuous Airworthiness Maintenance Program

(e) FAA-certificated air carriers that have an approved continuous airworthiness maintenance program in accordance with the record keeping requirement of § 121.369 (c) of the Federal Aviation Regulations [14 CFR 121.369 (c)] of this chapter must maintain records of the mandatory inspections that result from revising the Airworthiness Limitations Section of the applicable ESM and the air carrier's continuous airworthiness program. Alternatively, certificated air carriers may establish an approved system of record retention that provides a method for preservation and retrieval of the maintenance records that include the inspections resulting from this AD, and include the policy and procedures for implementing this alternate method in the air carrier's maintenance manual required by § 121.369 (c) of the Federal Aviation Regulations [14 CFR 121.369 (c)]; however, the alternate system must be accepted by the appropriate PMI and require the maintenance records be maintained either indefinitely or until the work is repeated. Records of the piece-part inspections are not required under § 121.380 (a)(2)(vi) of the Federal Aviation Regulations [14 CFR 121.380 (a)(2)(vi)]. All other operators must maintain the records of mandatory inspections required by the applicable regulations governing their operations.

**Note 3:** The requirements of this AD have been met when the ESM changes are made and air carriers have modified their continuous airworthiness maintenance plans to reflect the requirements in the applicable ESM.

Issued in Burlington, Massachusetts, on October 1, 2001.

Jay J. Pardee,

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

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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. 98-ANE-41-AD]

RIN 2120-AA64

### Airworthiness Directives; General Electric Company CF6-6, CF6-45, and CF6-50 Series Turbofan Engines

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

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

**SUMMARY:** The Federal Aviation Administration (FAA) proposes to supersede an existing airworthiness directive (AD), applicable to General Electric Company (GE) CF6-6, CF6-45,

and CF6-50 series turbofan engines, that currently requires revisions to the Time Limits Section of the manufacturer's Instructions for Continued Airworthiness (ICA) to include required inspection of selected critical life-limited parts at each piece-part exposure. This proposal would modify the airworthiness limitations section of the manufacturer's manual and an air carrier's approved continuous airworthiness maintenance program to incorporate additional inspection requirements. A Federal Aviation Administration (FAA) study of in-service events involving uncontained failures of critical rotating engine parts has indicated the need for mandatory inspections. The mandatory inspections are needed to identify those critical rotating parts with conditions, which if allowed to continue in service, could result in uncontained failures. The actions specified by this proposed AD are intended to prevent critical life-limited rotating engine part failure, which could result in an uncontained engine failure and damage to the airplane.

**DATES:** Comments must be received by December 4, 2001.

**ADDRESSES:** Submit comments in triplicate to the Federal Aviation Administration (FAA), New England Region, Office of the Regional Counsel, Attention: Rules Docket No. 98-ANE-41-AD, 12 New England Executive Park, Burlington, MA 01803-5299. Comments may also be sent via the Internet using the following address: "9-ane-adcomment@faa.gov". Comments sent via the Internet must contain the docket number in the subject line. Comments may be inspected at this location between 8:00 a.m. and 4:30 p.m., Monday through Friday, except Federal holidays.

#### FOR FURTHER INFORMATION CONTACT:

Karen Curtis, Aerospace Engineer, Engine Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803-5299; telephone (781) 238-7192, fax (781) 238-7199.

#### SUPPLEMENTARY INFORMATION:

##### Comments Invited

Interested persons are invited to participate in the making of the proposed rule by submitting such written data, views, or arguments as they may desire. Communications should identify the Rules Docket number and be submitted to the address specified above. All communications received on or before the closing date for comments, specified above, will be considered before taking action on the

proposed rule. The proposals contained in this notice may be changed in light of the comments received.

Comments are specifically invited on the overall regulatory, economic, environmental, and energy aspects of the proposed rule. All comments submitted will be available, both before and after the closing date for comments, in the Rules Docket for examination by interested persons. A report summarizing each FAA-public contact concerned with the substance of this proposal will be filed in the Rules Docket.

Commenters wishing the FAA to acknowledge receipt of their comments submitted in response to this notice must submit a self-addressed, stamped postcard on which the following statement is made: "Comments to Docket Number 98-ANE-41-AD." The postcard will be date stamped and returned to the commenter.

#### Availability of NPRMs

Any person may obtain a copy of this NPRM by submitting a request to the FAA, New England Region, Office of the Regional Counsel, Attention: Rules Docket No. 98-ANE-41-AD, 12 New England Executive Park, Burlington, MA 01803-5299.

#### Discussion

On April 14, 2000, the FAA issued AD 2000-08-11, Amendment 39-11697 (65 FR 21636, April 24, 2000), to require revisions to the Time Limits Section of the Manufacturer's Instructions for Continued Airworthiness (ICA) for General Electric Company (GE) CF6-6, CF6-45, and CF6-50 series turbofan engines to include required inspection of selected critical life-limited parts at each piece-part exposure.

#### Additional Inspection Procedures

Since the issuance of that AD, a Federal Aviation Administration (FAA) study of in-service events involving uncontained failures of critical rotating engine parts has indicated the need for additional mandatory inspections. The mandatory inspections are needed to identify those critical rotating parts with conditions, which if allowed to continue in service, could result in uncontained failures. This proposal would modify the airworthiness limitations section of the manufacturer's manual and an air carrier's approved continuous airworthiness maintenance program to incorporate additional inspection requirements.

#### Proposed Actions

Since an unsafe condition has been identified that is likely to exist or