

(2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

(l) Related Information

For more information about this AD, contact Dan McCully, Aviation Safety Engineer, FAA, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; phone (303) 342-1080; email william.mccully@faa.gov.

(m) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless this AD specifies otherwise.

(i) European Union Aviation Safety Agency (EASA) AD 2021-0290, dated December 23, 2021; corrected December 23, 2021 (EASA AD 2021-0290).

(ii) [Reserved]

(3) For EASA AD 2021-0290, contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 8999 000; email ADs@easa.europa.eu; internet easa.europa.eu. You may find the EASA material on the EASA website at ad.easa.europa.eu.

(4) You may view this service information at the FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy., Room 6N-321, Fort Worth, TX 76177. For information on the availability of this material at the FAA, call (817) 222-5110.

(5) You may view this material at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, email: fr.inspection@nara.gov, or go to: www.archives.gov/federal-register/cfr/ibr-locations.html.

Issued on November 30, 2023.

Victor Wicklund,

Deputy Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2023-27111 Filed 12-8-23; 8:45 am]

BILLING CODE 4910-13-P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2023-1216; Project Identifier AD-2023-00502-E; Amendment 39-22614; AD 2023-23-12]

RIN 2120-AA64

Airworthiness Directives; CFM International, S.A. Engines

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: The FAA is adopting a new airworthiness directive (AD) for all CFM

International, S.A. (CFM) Model LEAP-1B21, LEAP-1B23, LEAP-1B25, LEAP-1B27, LEAP-1B28, LEAP-1B28B1, LEAP-1B28B2, LEAP-1B28B2C, LEAP-1B28B3, LEAP-1B28BBJ1, and LEAP-1B28BBJ2 (LEAP-1B) engines. This AD was prompted by a manufacturer investigation that revealed that certain high-pressure turbine (HPT) rotor stage 1 disks (HPT stage 1 disks) and a certain compressor rotor stages 6-10 spool were manufactured from material suspected to have reduced material properties due to iron inclusion. This AD requires replacing certain HPT stage 1 disks and a certain compressor rotor stages 6-10 spool. The FAA is issuing this AD to address the unsafe condition on these products.

DATES: This AD is effective January 16, 2024.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of January 16, 2024.

ADDRESSES:

AD Docket: You may examine the AD docket at regulations.gov under Docket No. FAA-2023-1216; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this final rule, any comments received, and other information. The address for Docket Operations is U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.

Material Incorporated by Reference:

- For service information identified in this final rule, contact CFM International, S.A., GE Aviation Fleet Support, 1 Neumann Way, M/D Room 285, Cincinnati, OH 45215; phone: (877) 432-3272; email: aviation.fleetsupport@ge.com.

- You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 1200 District Avenue, Burlington, MA 01803. For information on the availability of this material at the FAA, call (817) 222-5110. It is also available at regulations.gov under Docket No. FAA-2023-1216.

FOR FURTHER INFORMATION CONTACT:

Mehdi Lamnyi, Aviation Safety Engineer, FAA, 2200 South 216th Street, Des Moines, WA 98198; phone: (781) 238-7743; email: Mehdi.Lamnyi@faa.gov.

SUPPLEMENTARY INFORMATION:

Background

The FAA issued a notice of proposed rulemaking (NPRM) to amend 14 CFR

part 39 by adding an AD that would apply to CFM International, S.A. (CFM) Model LEAP-1B21, LEAP-1B23, LEAP-1B25, LEAP-1B27, LEAP-1B28, LEAP-1B28B1, LEAP-1B28B2, LEAP-1B28B2C, LEAP-1B28B3, LEAP-1B28BBJ1, and LEAP-1B28BBJ2 engines. The NPRM published in the **Federal Register** on July 24, 2023 (88 FR 47404). The NPRM was prompted by a manufacturer investigation that detected iron inclusion in three non-LEAP-1B HPT rotor disks. Further investigation determined that the iron inclusion is attributed to deficiencies in the manufacturing process. The manufacturer also determined that certain LEAP-1B HPT stage 1 disks and a certain compressor rotor stages 6-10 spool manufactured using the same process may have reduced material properties and a lower fatigue life capability due to iron inclusion, which may cause premature fracture and subsequent uncontained failure of certain HPT stage 1 disks and a certain compressor rotor stages 6-10 spool.

In the NPRM, the FAA proposed to require replacement of certain HPT stage 1 disks and a certain compressor rotor stages 6-10 spool and also prohibit installation of an HPT stage 1 disk or compressor rotor stages 6-10 spool that has a part number and serial number identified in the service information onto any engine. The FAA is issuing this AD to address the unsafe condition on these products.

Discussion of Final Airworthiness Directive

The FAA received comments from five commenters. Commenters included CFM International, United Air Lines (United), The Boeing Company (Boeing), Air Line Pilots Association, International (ALPA) and Lynx Air (Lynx). United, Boeing, and ALPA supported the NPRM without change. The following presents the comments received on the NPRM from CFM and Lynx and the FAA's response to each comment.

Request To Update Service Information

CFM advised that updated service information for replacement of the HPT Stage 1 disks and high-pressure compressor (HPC) Stage 6-10 spool has been published. This updated service information provides certain corrections, identifies Required by Compliance annotations, and updated cost information to adequately address this unsafe condition. CFM recommends the latest revision to be utilized in this final rule.

The FAA agrees with CFM's recommendation to utilize the updated

service information and has updated this final rule to reflect the service information that is to be incorporated by reference in this final rule.

Request To Issue Separate AD Actions

Lynx stated that the reference of HPC Stage 6–10 spool should be removed from the manufacturer service information; and additional removal instruction should be provided to address the unsafe condition as it pertains to this affected part. Lynx pointed out that issuing a single AD addressing HPC Stage 6–10 spools and HPT Stage 1 disks, could cause a certain level of uncertainty when maintaining maintenance records and incorporating these applicable engines into the operator’s maintenance programs. Lynx suggested separate ADs should be issued to minimize the risk of confusion as it pertains to ensuring this unsafe condition has been addressed on these engines.

The FAA disagrees with the request to require the manufacturer to revise their

service information and issue separate ADs for each affected part. Since the applicability, unsafe condition, required action, and corrective action, are consistent among the affected parts and the FAA has determined that the content of the service bulletin addresses the unsafe condition, there is no need for separate service bulletins or separate ADs.

Conclusion

The FAA reviewed the relevant data, considered the comments received, and determined that air safety requires adopting this AD as proposed. Accordingly, the FAA is issuing this AD to address the unsafe condition on these products. Except for any changes described previously, this AD is adopted as proposed in the NPRM. None of the changes will increase the economic burden on any operator.

Related Service Information Under 1 CFR Part 51

The FAA reviewed CFM Service Bulletin LEAP–1B–72–00–0392–01A–

930A–D, Issue 002, dated September 5, 2023. This service information identifies the part numbers and serial numbers of HPT stage 1 disks and a compressor rotor stages 6–10 spool with potentially reduced material properties and specifies procedures for replacement of these parts. This service information is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in ADDRESSES section.

Costs of Compliance

The FAA estimates that this AD affects 39 engines installed on airplanes of U.S. registry. These 39 engines require replacement of the HPT stage 1 disk. The FAA estimates that there are no engines installed on airplanes of U.S. registry that require replacement of the compressor rotor stages 6–10 spool.

The FAA estimates the following costs to comply with this AD:

ESTIMATED COSTS

Action	Labor cost	Parts cost	Cost per product	Cost on U.S. operators
Replace HPT stage 1 disk	8 work-hours × \$85 per hour = \$680	\$215,635 (pro-rated)	\$216,315	\$8,436,285
Replace compressor rotor stages 6–10 spool.	8 work-hours × \$85 per hour = \$680	\$37,660 (pro-rated)	38,340	0

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.

The FAA is 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

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) Will not affect intrastate aviation in Alaska, 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.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

The Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA 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 adding the following new airworthiness directive:

2023–23–12 CFM International, S.A.:
Amendment 39–22614; Docket No. FAA–2023–1216; Project Identifier AD–2023–00502–E.

(a) Effective Date

This airworthiness directive (AD) is effective January 16, 2024.

(b) Affected ADs

None.

(c) Applicability

This AD applies to CFM International, S.A. (CFM) Model LEAP–1B21, LEAP–1B23, LEAP–1B25, LEAP–1B27, LEAP–1B28, LEAP–1B28B1, LEAP–1B28B2, LEAP–1B28B2C, LEAP–1B28B3, LEAP–1B28BBJ1, and LEAP–1B28BBJ2 engines.

(d) Subject

Joint Aircraft System Component (JASC) Code 7230, Turbine Engine Compressor Section; 7250, Turbine Section.

(e) Unsafe Condition

This AD was prompted by a manufacturer investigation that revealed that certain high-pressure turbine (HPT) rotor stage 1 disks (HPT stage 1 disks) and a certain compressor rotor stages 6–10 spool were manufactured from material suspected to have reduced material properties due to iron inclusion. The FAA is issuing this AD to prevent fracture and subsequent uncontained failure of certain HPT stage 1 disks and a certain compressor rotor stages 6–10 spool. The unsafe condition, if not addressed, could result in uncontained debris release, damage to the engine, and damage to the aircraft.

(f) Compliance

Comply with this AD within the compliance times specified, unless already done.

(g) Required Actions

(1) For engines with an installed HPT stage 1 disk having a part number (P/N) and serial number (S/N) identified in Compliance, paragraph 3.E., Tables 1 through 2, of CFM Service Bulletin (SB) LEAP–1B–72–00–0392–01A–930A–D, Issue 002, dated September 5, 2023 (CFM SB LEAP–1B–72–00–0392–01A–930A–D, Issue 2): At the next piece-part exposure of the HPT stage 1 disk, or before exceeding the applicable cycles since new (CSN) threshold identified in Compliance, paragraph 3.E., Tables 1 through 2, of CFM SB LEAP–1B–72–00–0392–01A–930A–D, Issue 2, whichever occurs first after the effective date of this AD; or if the applicable CSN threshold has been exceeded as of the effective date of this AD, within 50 flight cycles (FCs) from the effective date of this AD; remove the HPT stage 1 disk from service and replace with a part eligible for installation.

(2) For engines with an installed compressor rotor stages 6–10 spool having a P/N and S/N identified in Compliance, paragraph 3.E., Table 3, of CFM SB LEAP–1B–72–00–0392–01A–930A–D, Issue 2: At the next piece-part exposure of the compressor rotor stages 6–10 spool, or before exceeding the applicable CSN threshold identified in Compliance, paragraph 3.E., Table 3, of CFM SB LEAP–1B–72–00–0392–01A–930A–D, Issue 2, whichever occurs first after the effective date of this AD; or if the applicable CSN threshold has been exceeded as of the effective date of this AD, within 50 FCs from the effective date of this AD; remove the compressor rotor stages 6–10 spool from service and replace with a part eligible for installation.

(h) Definition

For the purpose of this AD, a “part eligible for installation” is an HPT stage 1 disk or compressor rotor stages 6–10 spool that does not have a P/N and S/N identified in Compliance, paragraph 3.E., Tables 1 through 3 of CFM SB LEAP–1B–72–00–0392–01A–930A–D, Issue 2.

(i) Installation Prohibition

After the effective date of this AD, do not install an HPT stage 1 disk or compressor rotor stages 6–10 spool that has a P/N and S/N identified in Compliance, paragraph 3.E., Tables 1 through 3 of CFM SB LEAP–1B–72–00–0392–01A–930A–D, Issue 2 on any engine.

(j) Credit for Previous Actions

This paragraph provides credit for the actions required by paragraph (g) of this AD, if those actions were performed prior to the effective date of this AD by following the Accomplishment Instructions specified in CFM SB LEAP–1B–72–00–0392–01A–930A–D, Issue 001, dated March 7, 2023.

(k) Alternative Methods of Compliance (AMOCs)

(1) The Manager, AIR–520 Continued Operational Safety Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the AIR–520 Continued Operational Safety Branch, send it to the attention of the person identified in paragraph (l)(1) of this AD and email to: ANE-AD-AMOC@faa.gov.

(2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

(l) Related Information

(1) For more information about this AD, contact Mehdi Lamnyi, Aviation Safety Engineer, FAA, 2200 South 216th Street, Des Moines, WA 98198; phone: (781) 238–7743; email: mehdi.lamnyi@faa.gov.

(2) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (m)(3) and (4) of this AD.

(m) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless the AD specifies otherwise.

(i) CFM International, S.A. Service Bulletin LEAP–1B–72–00–0392–01A–930A–D, Issue 002, dated September 5, 2023.

(ii) [Reserved]

(3) For service information identified in this AD, contact CFM International, S.A., GE Aviation Fleet Support, 1 Neumann Way, M/D Room 285, Cincinnati, OH 45215; phone: (877) 432–3272; email: aviation.fleetsupport@ge.com.

(4) You may view this service information at FAA, Airworthiness Products Section, Operational Safety Branch, 1200 District Avenue, Burlington, MA 01803. For information on the availability of this material at the FAA, call (817) 222–5110.

(5) You may view this material at the National Archives and Records

Administration (NARA). For information on the availability of this material at NARA, visit www.archives.gov/federal-register/cfr/ibr-locations or email fr.inspection@nara.gov.

Issued on November 20, 2023.

Ross Landes,

Deputy Director for Regulatory Operations, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2023–27092 Filed 12–8–23; 8:45 am]

BILLING CODE 4910–13–P

DEPARTMENT OF THE INTERIOR**Office of Surface Mining Reclamation and Enforcement****30 CFR Part 946**

[SATS No. VA–127–FOR; Docket ID: OSM–2015–0003; S1D1S SS08011000 SX064A000 223S180110; S2D2S SS08011000 SX064A000 22XS501520]

Virginia Regulatory Program

AGENCY: Office of Surface Mining Reclamation and Enforcement, Interior.

ACTION: Final rule; approval of amendment with deferrals.

SUMMARY: We, the Office of Surface Mining Reclamation and Enforcement (OSMRE), are approving, with two deferrals, an amendment to the Virginia regulatory program (the Virginia program) under the Surface Mining Control and Reclamation Act of 1977 (SMCRA or the Act). This amendment includes revisions to Virginia’s statutes and/or coal mining regulations that: remove self-bonds from the types of performance bond instruments authorized; adjust the financing of its alternative bonding system (ABS), which is in the form of a bond pool; and revise proof of publication requirements involving permit applications and bond release applications. We are deferring our decision on the removal of a regulation requiring certain actions by self-bonded operators when a condition affects their financial status and the proposed monetary cap on Virginia’s pool bond fund.

DATES: The effective date is January 10, 2024.

FOR FURTHER INFORMATION CONTACT: Mr. Michael Castle, Acting Field Office Director, Charleston Field Office. Telephone: (859) 260–3900, Email: osm-chfo@osmre.gov.

SUPPLEMENTARY INFORMATION:

- I. Background on the Virginia Program
- II. Submission of the Amendment
- III. OSMRE’s Findings
- IV. Summary and Disposition of Comments
- V. OSMRE’s Decision