

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

[Docket No. FAA-2022-1414; Project Identifier MCAI-2021-01303-E]

RIN 2120-AA64

Airworthiness Directives; GE Aviation Czech s.r.o. (Type Certificate Previously Held by WALTER Engines a.s., Walter a.s., and MOTORLET a.s.) Turboprop Engines

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: The FAA proposes to adopt a new airworthiness directive (AD) for certain GE Aviation Czech s.r.o. (GEAC) M601E-11, M601E-11A, M601E-11AS, M601E-11S, and M601F model turboprop engines. This proposed AD was prompted by the exclusion of life limits for certain compressor cases and compressor drums from the airworthiness limitations section (ALS) of the engine maintenance manual (EMM). This proposed AD was also prompted by certain compressor cases that, following rework, were improperly re-identified and the engine logbook entries were not completed. This proposed AD would require recalculation of the consumed life for the affected compressor cases and compressor drums and, depending on the results of the recalculation, removal and replacement of the affected compressor case or compressor drum with a part eligible for installation. The FAA is proposing this AD to address the unsafe condition on these products.

DATES: The FAA must receive comments on this NPRM by December 27, 2022.

ADDRESSES: You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

- *Federal eRulemaking Portal:* Go to [regulations.gov](https://www.regulations.gov). Follow the instructions for submitting comments.

- *Fax:* (202) 493-2251.

- *Mail:* U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.

- *Hand Delivery:* Deliver to Mail address above between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

AD Docket: You may examine the AD docket at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2022-1414; 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 NPRM, the mandatory continuing airworthiness information (MCAI), any comments received, and other information. The street address for Docket Operations is listed above.

Material Incorporated by Reference:

- For GEAC material identified in this NPRM, contact GE Aviation Czech s.r.o., Beranových 65, 199 02 Praha 9, Letňany, Czech Republic; phone: +420 222 538 111.

- You may view this material 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.

FOR FURTHER INFORMATION CONTACT:

Barbara Caufield, Aviation Safety Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: (781) 238-7146; email: barbara.caufield@faa.gov.

SUPPLEMENTARY INFORMATION:

Comments Invited

The FAA invites you to send any written relevant data, views, or arguments about this proposal. Send your comments to an address listed under **ADDRESSES**. Include “Docket No. FAA-2022-1414; Project Identifier MCAI-2021-01303-E” at the beginning of your comments. The most helpful comments reference a specific portion of the proposal, explain the reason for any recommended change, and include supporting data. The FAA will consider all comments received by the closing date and may amend this proposal because of those comments.

Except for Confidential Business Information (CBI) as described in the following paragraph, and other information as described in 14 CFR 11.35, the FAA will post all comments received, without change, to [regulations.gov](https://www.regulations.gov), including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact received about this NPRM.

Confidential Business Information

CBI is commercial or financial information that is both customarily and actually treated as private by its owner. Under the Freedom of Information Act (FOIA) (5 U.S.C. 552), CBI is exempt from public disclosure. If your comments responsive to this NPRM contain commercial or financial information that is customarily treated as private, that you actually treat as

private, and that is relevant or responsive to this NPRM, it is important that you clearly designate the submitted comments as CBI. Please mark each page of your submission containing CBI as “PROPIN.” The FAA will treat such marked submissions as confidential under the FOIA, and they will not be placed in the public docket of this NPRM. Submissions containing CBI should be sent to Barbara Caufield, Aviation Safety Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803. Any commentary that the FAA receives which is not specifically designated as CBI will be placed in the public docket for this rulemaking.

Background

The European Union Aviation Safety Agency (EASA), which is the Technical Agent for the Member States of the European Union, has issued EASA AD 2021-0264, dated November 22, 2021 (referred to after this as “the MCAI”), to correct an unsafe condition on GEAC M601E, M601E-11, M601E-11A, M601E-11AS, M601E-11S, M601E-21, M601F and M601FS model turboprop engines. The MCAI states that the life limits for certain compressor cases and compressor drums were not published in the applicable ALS of the EMM for certain GEAC M601 model turboprop engines. The MCAI also states that following rework of certain compressor cases from part number (P/N) M601-154.6 to P/N M601-154.51, those compressor cases were improperly re-identified and the engine logbook entries were not completed, which could cause the compressor case to remain in service beyond its applicable life limit. This condition can lead to failure of an affected part, possibly resulting in engine mount failure and high energy debris release.

As a result of this unsafe condition, the MCAI specifies replacement of the affected parts and engine logbook correction. The MCAI also specifies conditions and clarifications for parts installation using GEAC Alert Service Bulletin ASB-M601F-72-30-00-0061 [01] and ASB-M601E-72-30-00-0110 [01], (single document; formatted as service bulletin identifier [revision number]), dated October 15, 2021.

You may examine the MCAI in the AD docket at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2022-1414.

Related Service Information Under 14 CFR Part 51

The FAA reviewed GEAC Alert Service Bulletin ASB-M601F-72-30-00-0061 [01] and ASB-M601E-72-30-00-0110 [01], (single document; formatted as service bulletin identifier

[revision number]], dated October 15, 2021. This service information describes procedures for recalculation of the consumed life of certain compressor cases and compressor drums. The ASB also provides the part numbers of the affected compressor cases and compressor drums installed on GEAC M601E-11, M601E-11A, M601E-11AS, M601E-11S, and M601F model turboprop engines.

This ASB is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in ADDRESSES.

FAA’s Determination

These products have been approved by the aviation authority of another country and are approved for operation in the United States. Pursuant to the

FAA’s bilateral agreement with this State of Design Authority, it has notified the FAA of the unsafe condition described in the MCAI and service information described above. The FAA is issuing this NPRM after determining that the unsafe condition described previously is likely to exist or develop on other products of the same type design.

Proposed AD Requirements in This NPRM

This proposed AD would require recalculation of the consumed life for the affected compressor cases and compressor drums and, depending on the results of the recalculation, removal and replacement of the affected compressor case or compressor drum with a part eligible for installation.

Differences Between This Proposed AD and the MCAI

EASA AD 2022-0034 includes an Engine Logbook Correction paragraph which specifies correction of the compressor case P/N, while this proposed AD does not include the Engine Logbook Correction paragraph.

EASA AD 2022-0034 applies to GEAC M601E, M601E-21, and M601FS model turboprop engines, and this AD does not because they do not have an FAA type certificate.

Costs of Compliance

The FAA estimates that this AD, if adopted as proposed, would affect 7 engines installed on airplanes of U.S. registry.

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

ESTIMATED COSTS

Action	Labor cost	Parts cost	Cost per product	Cost on U.S. operators
Recalculate the consumed life of compressor case and compressor drum.	.25 work-hours × \$85 per hour = \$21.25	\$0	\$21.25	\$148.75

The FAA estimates the following costs to do any necessary replacements that would be required based on the

recalculated consumed life of the affected parts. The agency has no way

of determining the number of aircraft that might need these replacements:

ON-CONDITION COSTS

Action	Labor cost	Parts cost	Cost per product
Remove and replace compressor case	10 work-hours × \$85 per hour = \$850	\$5,000	\$5,850
Remove and replace compressor drum	40 work-hours × \$85 per hour = \$3,400	7,000	10,400

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

The FAA determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD 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.

For the reasons discussed above, I certify this proposed regulation:

- (1) Is not a “significant regulatory action” under Executive Order 12866,
- (2) Would not affect intrastate aviation in Alaska, and
- (3) Would 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 Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 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:

GE Aviation Czech s.r.o (Type Certificate previously held by WALTER Engines a.s., Walter a.s., and MOTORLET a.s.):

Docket No. FAA-2022-1414; Project Identifier MCAI-2021-01303-E.

(a) Comments Due Date

The FAA must receive comments on this airworthiness directive (AD) by December 27, 2022.

(b) Affected ADs

None.

(c) Applicability

This AD applies to GE Aviation Czech s.r.o. (GEAC) M601E-11, M601E-11A, M601E-11AS, M601E-11S, M601E-21, M601F, and M601FS model turboprop engines, with an installed compressor case part number (P/N) M601-154.51, which includes compressor cases identified as, or recorded in the engine logbook as P/N M601-154.6; or with an installed compressor drum having P/N M601-130.7 or P/N M601-134.7.

(d) Subject

Joint Aircraft System Component (JASC) Code 7240, Turbine Engine Compressor Section.

(e) Unsafe Condition

This AD was prompted by the manufacturer's determination that the life limits for certain compressor cases and compressor drums were not published in the applicable airworthiness limitations section of the engine maintenance manual. Additionally, it was determined that following rework, certain compressor cases were improperly re-identified and the engine logbook entries were not completed. The FAA is issuing this AD to prevent the failure of the compressor case and compressor drum. The unsafe condition, if not addressed, could result in engine mount failure and high energy debris release.

(f) Compliance

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

(g) Required Actions

(1) Within 90 days after the effective date of this AD, recalculate the consumed life of the affected compressor case and affected compressor drum in accordance with the formula and lifing coefficients in paragraph 2.B., Table 1 of the Accomplishment Instructions of GEAC Alert Service Bulletin ASB-M601F-72-30-00-0061 [01] ASB-M601E-72-30-00-0110 [01] (single document; formatted as service bulletin identifier [revision number]), dated October 15, 2021.

(2) For GEAC M601E-11, M601E-11A, and M601F model turboprop engines, before the recalculated consumed life of an affected compressor case exceeds 11,000 equivalent flight cycles (FCs), replace the compressor case with a compressor case eligible for installation.

(3) For GEAC M601E-11S and M601E-11AS model turboprop engines, before the recalculated consumed life of an affected compressor case exceeds 11,000 equivalent FCs, or within 12 months after the effective date of this AD, whichever occurs first, replace the compressor case with a compressor case eligible for installation.

(4) For all affected engines with an installed compressor drum having P/N M601-130.7 or M601-134.7, before the recalculated consumed life of the compressor drum exceeds 6,750 equivalent FCs, or within 12 months after the effective date of this AD, whichever occurs first, replace the compressor drum with a compressor drum eligible for installation.

(h) Definition

(1) For the purpose of this AD, a "compressor case eligible for installation" is:

(i) For GEAC M601E-11, M601E-11A, and M601F model turboprop engines, an affected compressor case that is identified as P/N M601-154.51 with no reference to other P/N's and that does not have a recalculated consumed life that has exceeded its life limit, or a compressor case that is not P/N M601-154.51.

(ii) For GEAC M601E-11S and M601E-11AS model turboprop engines, a compressor case that is not P/N M601-154.51.

Note 1 to paragraph (h)(1): A compressor case having P/N M601-154.6 is not an approved configuration, and is not eligible for installation.

(2) For the purpose of this AD, a "compressor drum eligible for installation" is a compressor drum that is not P/N M601-130.7 or M601-134.7.

(i) Alternative Methods of Compliance (AMOCs)

The Manager, ECO Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in § 39.19. In accordance with § 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 certification office, send it to the attention of the person identified in paragraph (j)(2) of this AD and email to: ANE-AD-AMOC@faa.gov.

(j) Additional Information

(1) Refer to European Union Aviation Safety Agency (EASA) AD 2021-0264, dated November 22, 2021, for related information. This EASA AD may be found in the AD docket at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2022-1414.

(2) For more information about this AD, contact Barbara Caufield, Aviation Safety Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: (781) 238-7146; email: barbara.caufield@faa.gov.

(k) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference of the material 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) GE Aviation Czech Alert Service Bulletin ASB-M601F-72-30-00-0061 [01] and ASB-M601E-72-30-00-0110 [01], (single document; formatted as service bulletin identifier [revision number]), dated October 15, 2021.

(ii) Reserved.

(3) For GEAC service information identified in this AD, contact GE Aviation

Czech s.r.o., Beranových 65, 199 02 Praha 9, Letňany, Czech Republic; phone: +420 222 538 111.

(4) You may view this material 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.

(5) You may view this material that is incorporated by reference 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 3, 2022.

Christina Underwood,

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

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2022-1250; Project Identifier AD-2022-00763-T]

RIN 2120-AA64

Airworthiness Directives; The Boeing Company Model Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: The FAA proposes to adopt a new airworthiness directive (AD) for all The Boeing Company Model 737-600, -700, -700C, -800, -900, and -900ER series airplanes. This proposed AD was prompted by an evaluation by the design approval holder (DAH) indicating that the skin lap splice at certain stringers is subject to widespread fatigue damage (WFD). This proposed AD would require an inspection for any repair at certain skin lap splices and depending on the configuration, repetitive inspections for buckling, wrinkling, bulging at affected skin lap splices and repair, repetitive inspections for cracking at affected locations common to fuselage skin on the left and right sides and repair, and alternative inspections and on-condition actions. The FAA is proposing this AD to address the unsafe condition on these products.

DATES: The FAA must receive comments on this proposed AD by December 27, 2022.

ADDRESSES: You may send comments, using the procedures found in 14 CFR