

[Federal Register Volume 83, Number 117 (Monday, June 18, 2018)]

[Rules and Regulations]

[Pages 28151-28153]

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[FR Doc No: 2018-12892]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2018-0104; Product Identifier 2017-CE-036-AD; Amendment 39-19311; AD 2018-12-07]

RIN 2120-AA64

Airworthiness Directives; Gulfstream Aerospace Corporation Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: We are superseding Airworthiness Directive (AD) 2015-24-06 for certain Gulfstream Aerospace Corporation Model GVI airplanes. AD 2015-24-06 required repetitive breakaway torque checks and torqueing of the main landing gear (MLG) brake inlet self-sealing couplings and inserting a dispatch and takeoff limitation to the limitations section of the airplane flight manual. This AD requires modifying the MLG and brake assembly. This AD was prompted by reports of the self-sealing couplings on the MLG brake inlet fitting backing out of the fully seated position. We are issuing this AD to address the unsafe condition on these products.

DATES: This AD is effective July 23, 2018.

The Director of the Federal Register approved the incorporation by reference of certain publications listed in this AD as of July 23, 2018.

ADDRESSES: For service information identified in this final rule, contact Gulfstream Aerospace Corporation, P.O. Box 2206, Savannah, Georgia 31404-2206; telephone: (912) 965-3000; fax: (912) 965-3520; email: pubs@gulfstream.com; internet: www.gulfstream.com. You may view this service information at the FAA, Policy and Innovation Division, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call (816) 329-4148. It is also available on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0104.

Examining the AD Docket

You may examine the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0104; 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, the

regulatory evaluation, any comments received, and other information. The address for Docket Operations (phone: 800-647-5527) 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.

FOR FURTHER INFORMATION CONTACT: Gideon Jose, Aerospace Engineer, Atlanta ACO Branch, FAA, 1701 Columbia Avenue, College Park, Georgia 30337; phone: 404-474-5569; fax: 404-474-5606; email: gideon.jose@faa.gov.

SUPPLEMENTARY INFORMATION:

Discussion

We issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 to supersede AD 2015-24-06, Amendment 39-18338 (80 FR 75788, December 4, 2015) (“AD 2015-24-06”). AD 2015-24-06 applied to certain Gulfstream Aerospace Corporation (Gulfstream) Model GVI airplanes and required repetitive breakaway torque checks and torqueing of the main landing gear (MLG) brake inlet self-sealing couplings and inserting a dispatch and takeoff limitation to the limitations section of the airplane flight manual.

The NPRM published in the Federal Register on February 12, 2018 (83 FR 5958). AD 2015-24-06 was prompted by reports of the self-sealing couplings on the MLG brake inlet fitting backing out of the fully seated position. The NPRM was prompted by the development of modifications that when incorporated would terminate the need for repetitive breakaway torque checks and torqueing of the brake inlet self-sealing couplings.

The NPRM proposed to require modifying the MLG with new tube assemblies without self-sealing couplings and adding lock wire. The NPRM also proposed to require inspecting and modifying the brake assembly. The NPRM proposed to not retain any of the requirements of AD 2015-24-06.

We are issuing this AD to address the unsafe condition on these products, which if not addressed could result in loss of braking capability on one or multiple brakes and lead to runway overrun or asymmetrical braking that could result in lateral runway excursion.

Comments

We gave the public the opportunity to participate in developing this AD. We received no comments on the NPRM or on the determination of the cost to the public.

Conclusion

We reviewed the relevant data and determined that air safety and the public interest require adopting this AD as proposed except for minor editorial changes. We have determined that these minor changes:

- Are consistent with the intent that was proposed in the NPRM for addressing the unsafe condition; and
- Do not add any additional burden upon the public than was already proposed in the NPRM.

Related Service Information Under 1 CFR Part 51

We reviewed Gulfstream G650 Customer Bulletin Number 155B, dated July 26, 2017; and Gulfstream G650ER Customer Bulletin Number 155B, dated July 26, 2017. For the applicable model designations, this service information describes procedures to modify the MLG and brake assemblies.

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 the ADDRESSES section.

Costs of Compliance

We estimate that this AD affects 162 airplanes of U.S. registry.

We estimate the following costs to comply with this AD:

Estimated Costs				
Action	Labor cost	Parts cost	Cost per product	Cost on U.S. operators
Replacement of brake hose assemblies, inspection of brake assembly attachment bolts, and modification of the brake assembly	65.5 work-hours × \$85 per hour = \$5,567.50	\$14,776	\$20,343.50	\$3,295,647

According to the manufacturer, some of the costs of this AD may be covered under warranty, thereby reducing the cost impact on affected individuals. We do not control warranty coverage for affected individuals. As a result, we have included all costs in our cost estimate.

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.

This AD is issued in accordance with authority delegated by the Executive Director, Aircraft Certification Service, as authorized by FAA Order 8000.51C. In accordance with that order, issuance of ADs is normally a function of the Compliance and Airworthiness Division, but during this transition period, the Executive Director has delegated the authority to issue ADs applicable to small airplanes, gliders, balloons, airships, domestic business jet transport airplanes, and associated appliances to the Director of the Policy and Innovation Division.

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 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),
- (3) Will not affect intrastate aviation in Alaska, and

(4) 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.

Adoption of 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 removing Airworthiness Directive (AD) 2015-24-06, Amendment 39-18338 (80 FR 75788, December 4, 2015), and adding the following new AD:



**FAA
Aviation Safety**

AIRWORTHINESS DIRECTIVE

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

2018-12-07 Gulfstream Aerospace Corporation: Amendment 39-19311; Docket No. FAA-2018-0104; Product Identifier 2017-CE-36-AD.

(a) Effective Date

This AD is effective July 23, 2018.

(b) Affected ADs

This AD replaces AD 2015-24-06, Amendment 39-18338 (80 FR 75788, December 4, 2015) ("AD 2015-24-06").

(c) Applicability

This AD applies to Gulfstream Aerospace Corporation Model GVI airplanes, serial numbers 6001 and 6003 through 6163, certificated in any category.

Note 1 to paragraph (c) of this AD: Model GVI airplanes are also referred to by the marketing designations G650 and G650ER.

(d) Subject

Joint Aircraft System Component (JASC)/Air Transport Association (ATA) of America Code 32, Landing Gear.

(e) Unsafe Condition

AD 2015-24-06 was prompted by reports of the main landing gear (MLG) self-sealing couplings on the MLG brake inlet fitting backing out of the fully seated position. This AD was prompted by the development of modifications that when incorporated would terminate the need for repetitive breakaway torque checks and torqueing of the brake inlet self-sealing couplings. We are issuing this AD to prevent loss of braking capability on one or multiple brakes. The unsafe condition, if not addressed, could lead to runway overrun or asymmetrical braking that could result in lateral runway excursion.

(f) Compliance

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

(g) Modification of the MLG and MLG Brake Assemblies

(1) Within 6 months after July 23, 2018 (the effective date of this AD), modify the MLG and brake assemblies following the Accomplishment Instructions in Gulfstream G650 Customer Bulletin

Number 155B, dated July 26, 2017; and Gulfstream G650ER Customer Bulletin Number 155B, dated July 26, 2017.

(2) Although Gulfstream G650 Customer Bulletin Number 155B, dated July 26, 2017; and Gulfstream G650ER Customer Bulletin Number 155B, dated July 26, 2017, both contain reporting requirements and return of certain parts to the manufacturer, this AD does not include those requirements.

(3) AD 2015-24-06 required a dispatch and takeoff limitation in the airplane flight manual. Although we did not retain that requirement in this AD, if not already removed, this limitation should be removed after the modification in paragraph (g)(1) of this AD is done.

(h) Credit for Previous Actions

If done before July 23, 2018 (the effective date of this AD), this AD allows credit for the actions in paragraph (g) of this AD following Gulfstream G650 Customer Bulletin 155, dated July 29, 2016; Gulfstream G650ER Customer Bulletin 155, dated July 29, 2016; Gulfstream G650 Customer Bulletin 155A, dated August 19, 2016; or Gulfstream G650ER Customer Bulletin 155A, dated August 19, 2016, as applicable.

(i) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Atlanta ACO 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 certification office, send it to the attention of the person identified in paragraph (j) of this AD.

(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.

(3) For service information that contains steps that are labeled as Required for Compliance (RC), the provisions of paragraphs (i)(3)(i) and (ii) of this AD apply.

(i) The steps labeled as RC, including substeps under an RC step and any figures identified in an RC step, must be done to comply with the AD. An AMOC is required for any deviations to RC steps, including substeps and identified figures.

(ii) Steps not labeled as RC may be deviated from using accepted methods in accordance with the operator's maintenance or inspection program without obtaining approval of an AMOC, provided the RC steps, including substeps and identified figures, can still be done as specified, and the airplane can be put back in an airworthy condition.

(j) Related Information

For more information about this AD, contact Gideon Jose, Aerospace Engineer, Atlanta ACO Branch, FAA, 1701 Columbia Avenue, College Park, Georgia 30337; phone: 404-474-5569; fax: 404-474-5606; email: gideon.jose@faa.gov.

(k) 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) Gulfstream G650 Customer Bulletin Number 155B, dated July 26, 2017.

(ii) Gulfstream G650ER Customer Bulletin Number 155B, dated July 26, 2017.

(3) For service information identified in this AD, contact Gulfstream Aerospace Corporation, P.O. Box 2206, Savannah, Georgia 31404-2206; telephone: (912) 965-3000; fax: (912) 965-3520; email: pubs@gulfstream.com; internet: www.gulfstream.com.

(4) You may view this service information at FAA, Policy and Innovation Division, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call (816) 329-4148.

(5) You may view this service information that is incorporated by reference 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/cfr/ibr-locations.html>.

Issued in Kansas City, Missouri, on June 1, 2018.

Melvin J. Johnson,

Aircraft Certification Service, Deputy Director, Policy and Innovation Division, AIR-601.