

[Federal Register, Volume 87 Number 206 (Wednesday, October 26, 2022)]  
[Rules and Regulations]  
[Pages 64693-64695]  
From the Federal Register Online via the Government Publishing Office [www.gpo.gov]  
[FR Doc No: 2022-23366]

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## **DEPARTMENT OF TRANSPORTATION**

### **Federal Aviation Administration**

#### **14 CFR Part 39**

**[Docket No. FAA-2022-1252; Project Identifier AD-2022-01163-T; Amendment 39-22204; AD 2022-21-05]**

**RIN 2120-AA64**

### **Airworthiness Directives; The Boeing Company Airplanes**

#### **AGENCY:**

Federal Aviation Administration (FAA), DOT.

#### **ACTION:**

Final rule; request for comments.

#### **SUMMARY:**

The FAA is adopting a new airworthiness directive (AD) for certain The Boeing Company Model 737-300, -400, and -500 series airplanes. This AD was prompted by a report that a spoiler sensor failure may go undetected by the autothrottle (A/T) computer. This AD requires repetitive built-in test equipment (BITE) tests of the A/T computer to detect a spoiler sensor failure, and corrective action if necessary. The FAA is issuing this AD to address the unsafe condition on these products.

#### **DATES:**

This AD is effective November 10, 2022.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of November 10, 2022.

The FAA must receive comments on this AD by December 12, 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*. 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* by searching for and locating Docket No. FAA-2022-1252; 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 street address for Docket Operations is listed above.

#### *Material Incorporated by Reference:*

- For service information identified in this final rule, contact Boeing Commercial Airplanes, Attention: Contractual & Data Services (C&DS), 2600 Westminister Blvd., MC 110 SK57, Seal Beach, CA 90740-5600; telephone 562-797-1717; website *myboeingfleet.com*.
- You may view this referenced service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195. It is also available at *regulations.gov* by searching for and locating Docket No. FAA-2022-1252.

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

Eric Igama, Aerospace Engineer, Systems and Equipment Section, FAA, Los Angeles ACO Branch, 3960 Paramount Boulevard, Lakewood, CA 90712-4137; phone: 562-627-5388; email: [Roderick.igama@faa.gov](mailto:Roderick.igama@faa.gov).

#### **SUPPLEMENTARY INFORMATION:**

##### **Background**

The FAA has received a report that a spoiler sensor failure may go undetected by the A/T computer. A review of the A/T cruise thrust split monitor logic terms showed that failure of the spoiler sensor input, including the wiring into the monitor logic, cannot be detected without a maintenance action performed on the flight control system. Latent loss of spoiler sensor position data or erroneous spoiler sensor position data could result in failure of the A/T cruise thrust split monitor to activate, which may result in a significant throttle split leading to asymmetric thrust. The subsequent lack of A/T disengagement could lead to an uncommanded roll. This condition, if not addressed, could result in potential loss of control of the airplane or reduced ability of the flightcrew to maintain the safe flight and landing of the airplane. The FAA is issuing this AD to address the unsafe condition on these products.

The FAA has confirmed that accomplishment of the applicable BITE test in the existing airplane maintenance manual (AMM) detects the spoiler sensor failure. This test is currently not required to be performed repetitively, leading to a potential latent failure if the test is not performed regularly, which will be required by this AD.

## FAA's Determination

The FAA is issuing this AD because the agency has determined the unsafe condition described previously is likely to exist or develop in other products of the same type design.

## Related Service Information Under [1 CFR Part 51](#)

The FAA reviewed Boeing Alert Requirements Bulletin 737-22A1411 RB, dated August 22, 2022. This service information specifies procedures for performing an A/T computer BITE test, “Autopilot Aileron Actuator Test—DFCS BITE,” and, if the test fails, performing applicable corrective actions to repair defects and repeating the test until the test passes. 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** .

## AD Requirements

This AD requires accomplishing the actions identified in Boeing Alert Requirements Bulletin 737-22A1411 RB, dated August 22, 2022, already described, except as discussed under “Differences Between this AD and the Service Information,” and except for any differences identified as exceptions in the regulatory text of this AD.

For information on the procedures and compliance times, see this service information at *regulations.gov* by searching for and locating Docket No. FAA-2022-1252.

## Differences Between This AD and the Service Information

Boeing Alert Requirements Bulletin 737-22A1411 RB, dated August 22, 2022, specifies a compliance time of 250 flight hours for the initial BITE test. However, this AD requires the initial BITE test within 250 flight hours or 2 months after the effective date of this AD, whichever occurs first, to ensure that airplanes with low utilization rates are addressed in a timely manner.

## Justification for Immediate Adoption and Determination of the Effective Date

Section 553(b)(3)(B) of the Administrative Procedure Act (APA) ([5 U.S.C. 551 et seq.](#)) authorizes agencies to dispense with notice and comment procedures for rules when the agency, for “good cause,” finds that those procedures are “impracticable, unnecessary, or contrary to the public interest.” Under this section, an agency, upon finding good cause, may issue a final rule without providing notice and seeking comment prior to issuance. Further, section 553(d) of the APA authorizes agencies to make rules effective in less than thirty days, upon a finding of good cause.

An unsafe condition exists that requires the immediate adoption of this AD without providing an opportunity for public comments prior to adoption. The FAA has found that the risk to the flying public justifies forgoing notice and comment prior to adoption of this rule because failure of a spoiler

sensor could result in failure of the autothrottle cruise thrust split monitor to activate, which may result in a significant throttle split leading to asymmetric thrust. The subsequent lack of autothrottle disengagement could lead to an uncommanded roll. This condition, if not addressed, could result in potential loss of control of the airplane or reduced ability of the flightcrew to maintain the safe flight and landing of the airplane. Accordingly, notice and opportunity for prior public comment are impracticable and contrary to the public interest pursuant to [5 U.S.C. 553\(b\)\(3\)\(B\)](#).

In addition, the FAA finds that good cause exists pursuant to [5 U.S.C. 553\(d\)](#) for making this amendment effective in less than 30 days, for the same reasons the FAA found good cause to forgo notice and comment.

## Comments Invited

The FAA invites you to send any written data, views, or arguments about this final rule. Send your comments to an address listed under **ADDRESSES**. Include Docket No. FAA-2022-1252 and Project Identifier AD-2022-01163-T at the beginning of your comments. The most helpful comments reference a specific portion of the final rule, 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 final rule 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*, including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact received about this final rule.

## 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 AD 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 AD, 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 AD. Submissions containing CBI should be sent to Eric Igama, Aerospace Engineer, Systems and Equipment Section, FAA, Los Angeles ACO Branch, 3960 Paramount Boulevard, Lakewood, CA 90712-4137; phone: 562-627-5388; email: [Roderick.igama@faa.gov](mailto:Roderick.igama@faa.gov). Any commentary that the FAA receives that is not specifically designated as CBI will be placed in the public docket for this rulemaking.

## Regulatory Flexibility Act

The requirements of the Regulatory Flexibility Act (RFA) do not apply when an agency finds good cause pursuant to [5 U.S.C. 553](#) to adopt a rule without prior notice and comment. Because the FAA has determined that it has good cause to adopt this rule without notice and comment, RFA analysis is not required.

## Costs of Compliance

The FAA estimates that this AD affects 21 airplanes of U.S. registry. 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 |
|-----------|--|------------|------------------|------------------------|
| BITE test | 2 work-hours × \$85 per hour =<br>\$170 per test | \$0        | \$170 per test   | \$3,570 per test.      |

The FAA has received no definitive data on which to base the cost estimates for the on-condition corrective actions specified in this AD.

### 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, and
- (2) Will not affect intrastate aviation in Alaska.

### 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:

**2022-21-05 The Boeing Company:** Amendment 39-22204; Docket No. FAA-2022-1252; Project Identifier AD-2022-01163-T.

#### **(a) Effective Date**

This airworthiness directive (AD) is effective November 10, 2022.

#### **(b) Affected ADs**

None.

#### **(c) Applicability**

This AD applies to The Boeing Company Model 737-300, -400, and -500 series airplanes, certificated in any category, as identified in Boeing Alert Requirements Bulletin 737-22A1411 RB, dated August 22, 2022.

#### **(d) Subject**

Air Transport Association (ATA) of America Code 22, Auto flight.

#### **(e) Unsafe Condition**

This AD was prompted by a report that a spoiler sensor failure may go undetected by the autothrottle computer. The FAA is issuing this AD to address latent loss of spoiler sensor position data or erroneous spoiler sensor position data. The unsafe condition, if not addressed, could result in asymmetric thrust or an uncommanded roll and consequent potential loss of control of the airplane or reduced ability of the flightcrew to maintain the safe flight and landing of the airplane.

#### **(f) Compliance**

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

#### **(g) Required Actions**

Except as specified by paragraph (h) of this AD: At the applicable times specified in the “Compliance” paragraph of Boeing Alert Requirements Bulletin 737-22A1411 RB, dated August 22, 2022, do all applicable actions identified in, and in accordance with, the Accomplishment Instructions of Boeing Alert Requirements Bulletin 737-22A1411 RB, dated August 22, 2022.

#### **Note 1 to paragraph (g):**

Guidance for accomplishing the actions required by this AD can be found in Boeing Alert Service Bulletin 737-22A1411 RB, dated August 22, 2022, which is referred to in Boeing Alert Requirements Bulletin 737-22A1411 RB, dated August 22, 2022.

#### **(h) Exceptions to Service Information Specifications**

Where Boeing Alert Requirements Bulletin 737-22A1411 RB, dated August 22, 2022, specifies the compliance time for the initial autopilot aileron actuator test as “Within 250 flight hours after the Original Issue date of Requirements Bulletin 737-22A1411 RB,” for this AD the initial compliance time is within 250 flight hours or 2 months after the effective date of this AD, whichever occurs first.

#### **(i) Alternative Methods of Compliance (AMOCs)**

(1) The Manager, Los Angeles 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 responsible Flight Standards 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)(1) of this AD. Information may be emailed to: [9-ANM-LAACO-AMOC-Requests@faa.gov](mailto:9-ANM-LAACO-AMOC-Requests@faa.gov).

(2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the responsible Flight Standards Office.

(3) An AMOC that provides an acceptable level of safety may be used for any repair, modification, or alteration required by this AD if it is approved by The Boeing Company Organization Designation Authorization (ODA) that has been authorized by the Manager, Los Angeles ACO Branch, FAA, to make those findings. To be approved, the repair method, modification deviation, or alteration deviation must meet the certification basis of the airplane, and the approval must specifically refer to this AD.

#### **(j) Related Information**

(1) For more information about this AD, contact Eric Igama, Aerospace Engineer, Systems and Equipment Section, FAA, Los Angeles ACO Branch, 3960 Paramount Boulevard, Lakewood, CA 90712-4137; phone: 562-627-5388; email: [roderick.igama@faa.gov](mailto:roderick.igama@faa.gov).

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

#### **(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) Boeing Alert Requirements Bulletin 737-22A1411 RB, dated August 22, 2022.

(ii) [Reserved]

(3) For service information identified in this AD, contact Boeing Commercial Airplanes, Attention: Contractual & Data Services (C&DS), 2600 Westminister Blvd., MC 110 SK57, Seal Beach, CA 90740-5600; telephone 562 797 1717; website [myboeingfleet.com](http://myboeingfleet.com).

(4) You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

(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, email [fr.inspection@nara.gov](mailto:fr.inspection@nara.gov), or go to: [www.archives.gov/federal-register/cfr/ibr-locations.html](http://www.archives.gov/federal-register/cfr/ibr-locations.html).

Issued on September 29, 2022.

Christina Underwood,

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

[[FR Doc. 2022-23366](#) Filed 10-24-22; 11:15 am]

BILLING CODE 4910-13-P