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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2024-1303; Project Identifier AD-2023-01252-T; Amendment 39-22933; AD 2025-01-09]

RIN 2120-AA64

Airworthiness Directives; The Boeing Company Airplanes

AGENCY:

Federal Aviation Administration (FAA), DOT.

ACTION:

Final rule.

SUMMARY:

The FAA is adopting a new airworthiness directive (AD) for all The Boeing Company Model 787-8, 787-9, and 787-10 airplanes. This AD was prompted by a report of operators receiving No. 1 flight compartment windows that may not meet type design requirements for withstanding a bird impact. This AD requires replacing affected No. 1 flight compartment windows and prohibits the installation of affected windows. The FAA is issuing this AD to address the unsafe condition on these products.

DATES:

This AD is effective March 11, 2025.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of March 11, 2025.

ADDRESSES:

AD Docket: You may examine the AD docket at *regulations.gov* under Docket No. FAA-2024-1303; 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 Boeing material 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.
- You may view this material 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 under Docket No. FAA-2024-1303.

FOR FURTHER INFORMATION CONTACT:

Joseph Hodgin, Aviation Safety Engineer, FAA, 2200 South 216th St., Des Moines, WA 98198; phone: 206-231-3962; email: Joseph.J.Hodgin@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 all The Boeing Company Model 787-8, 787-9, and 787-10 airplanes. The NPRM published in the **Federal Register** on May 20, 2024 ([89 FR 43794](#)). The NPRM was prompted by a report of operators receiving No. 1 flight compartment windows that may not meet type design requirements for withstanding a bird impact. In the NPRM, the FAA proposed to require replacing affected No. 1 flight compartment windows and prohibit the installation of affected windows. The FAA is issuing this AD to prevent a window from spalling in the event of a high-energy bird impact. The unsafe condition, if not addressed, could result in injuries to crew that may affect continued safe flight and landing.

Discussion of Final Airworthiness Directive

Comments

The FAA received comments from three commenters, Air Line Pilots Association, International (ALPA), Boeing Commercial Airplanes, and United Airlines, who supported the NPRM without change.

Conclusion

The FAA reviewed the relevant data, considered any 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 minor editorial changes, this AD is adopted as proposed in the NPRM. None of the changes will increase the economic burden on any operator.

Material Incorporated by Reference Under [1 CFR Part 51](#)

The FAA reviewed Boeing Alert Requirements Bulletin B787-81205-SB560010-00 RB, Issue 001, dated December 13, 2023. This material specifies procedures for determining whether a left or right No. 1 flight compartment window with certain part numbers and serial numbers is installed and for replacing any window that has an affected part number and serial number.

This material 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

The FAA estimates that this AD affects 152 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 airplane	Cost on U.S. operators
Inspect right and left No. 1 windows	0.25 work-hour × \$85 per hour = \$21.25	\$0	\$21.25	\$3,230

The FAA estimates the following costs to do any replacement that would be required based on the results of the inspection. The agency has no way of determining the number of airplanes that might need these replacements or how many replacements each airplane may require:

On-Condition Costs

Action	Labor cost	Parts cost	Cost per airplane
Replace No. 1 window	16 work-hours × \$85 per hour = \$1,360	\$104,060	\$105,420 per window.

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:

2025-01-09 The Boeing Company: Amendment 39-22933; Docket No. FAA-2024-1303; Project Identifier AD-2023-01252-T.

(a) Effective Date

This airworthiness directive (AD) is effective March 11, 2025.

(b) Affected ADs

None.

(c) Applicability

This AD applies to all The Boeing Company Model 787-8, 787-9, and 787-10 airplanes, certificated in any category.

(d) Subject

Air Transport Association (ATA) of America Code 56, Windows.

(e) Unsafe Condition

This AD was prompted by a report that certain No.1 flight compartment windows may not meet type design requirements for withstanding a bird impact due to the elimination of a witness test specimen and process changes that affect main bondline strength. The FAA is issuing this AD to prevent a window from spalling in the event of a high-energy bird impact. The unsafe condition, if not addressed, could result in injuries to crew that may affect continued safe flight and landing.

(f) Compliance

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

(g) Required Actions

For airplanes identified in Boeing Alert Requirements Bulletin B787-81205-SB560010-00 RB, Issue 001, dated December 13, 2023: Except as specified in paragraph (h) of this AD, at the applicable times specified in the “Compliance” paragraph of Boeing Alert Requirements Bulletin B787-81205-SB560010-00 RB, Issue 001, dated December 13, 2023, do all applicable actions identified in, and in accordance with, the Accomplishment Instructions of Boeing Alert Requirements Bulletin B787-81205-SB560010-00 RB, Issue 001, dated December 13, 2023.

Note 1 to paragraph (g): Guidance for accomplishing the actions required by this AD can be found in Boeing Alert Service Bulletin B787-81205-SB560010-00, Issue 001, dated December 13, 2023, which is referred to in Boeing Alert Requirements Bulletin B787-81205-SB560010-00 RB, Issue 001, dated December 13, 2023.

(h) Exceptions to Service Information Specifications

Where the “Boeing Recommended Compliance Time” column in the tables under the “Compliance” paragraph of Boeing Alert Requirements Bulletin B787-81205-SB560010-00 RB, Issue 001, dated December 13, 2023, uses the phrase “the Issue 001 date of the Requirements Bulletin B787-81205-SB560010-00 RB,” this AD requires using the effective date of this AD.

(i) Parts Installation Prohibition

As of the effective date of this AD, do not install on any airplane a No. 1 flight compartment window part number 190800-11, -12, -13, -14, -15, -16, -19, or -20, with a serial number listed in Appendix A of Boeing Alert Requirements Bulletin B787-81205-SB560010-00 RB, Issue 001, dated December 13, 2023.

(j) 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 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 (k)(1) of this AD. Information may be emailed to: AMOC@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, AIR-520, Continued Operational Safety 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.

(k) Related Information

(1) For more information about this AD, contact Joseph Hodgin, Aviation Safety Engineer, FAA, 2200 South 216th St., Des Moines, WA 98198; phone: 206-231-3962; email: Joseph.J.Hodgin@faa.gov.

(2) Material identified in this AD that is not incorporated by reference is available at the address specified in paragraphs (l)(3) of this AD.

(l) 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 material as applicable to do the actions required by this AD, unless the AD specifies otherwise.

(i) Boeing Alert Requirements Bulletin B787-81205-SB560010-00 RB, Issue 001, dated December 13, 2023.

(ii) [Reserved]

(3) For the material 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.

(4) You may view this material 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 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 January 13, 2025.

Suzanne Masterson,

Deputy Director, Integrated Certificate Management Division, Aircraft Certification Service.

[[FR Doc. 2025-02143](#) Filed 2-3-25; 8:45 am]

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