

Figure 21 to paragraph (l)(5)—*AFM Operating Procedures Revision for Model DC-9-81 (MD-81), DC-9-82 (MD-82), DC-9-83 (MD-*

*83), DC-9-87 (MD-87), MD-88, and MD-90-30*

(Required by AD 2023-12-15)

## Radio Altimeter 5G C-Band Interference, Approaches

### ILS Approaches

For ILS approaches other than SA CAT I, SA CAT II, CAT II, and CAT III, disconnect the autopilot and autothrottles, and place both flight director switches to OFF prior to glideslope intercept.

Note: Possible erroneous radio altimeter indications may affect autopilot, autothrottles, and flight director guidance; manually intervene if necessary.

### Non-Precision Approaches

Non-precision instrument approaches can be conducted using LNAV/VNAV with flight directors, autopilot, and autothrottle to published BARO minimums.

#### (m) Alternative Methods of Compliance (AMOCs)

(1) The Manager, 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 Operational Safety Branch, send it to the attention of the person identified in paragraph (n) of this AD. Information may be emailed to: [AMOC@faa.gov](mailto: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) AMOCs approved for AD 2021-23-12, Amendment 39-21810 (86 FR 69984, December 9, 2021) providing relief for specific radio altimeter installations are approved as AMOCs for the requirements specified in paragraph (h) of this AD until June 30, 2023.

#### (n) Related Information

For more information about this AD, contact Brett Portwood, Continued Operational Safety Technical Advisor, COS Program Management Section, Operational Safety Branch, FAA, 3960 Paramount Boulevard, Lakewood, CA 90712-4137; phone: 817-222-5390; email: [operational\\_safety@faa.gov](mailto:operational_safety@faa.gov).

#### (o) Material Incorporated by Reference

None.

Issued on June 9, 2023.

**Michael Linegang**,  
*Acting Director, Compliance & Airworthiness Division, Aircraft Certification Service.*

[FR Doc. 2023-13155 Filed 6-16-23; 11:15 am]

**BILLING CODE 4910-13-C**

## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. **FAA-2023-0672**; Project Identifier **AD-2022-01429-T**; Amendment **39-22470**; AD **2023-12-12**]

**RIN 2120-AA64**

#### Airworthiness Directives; The Boeing Company Airplanes

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Final rule.

**SUMMARY:** The FAA is superseding Airworthiness Directive (AD) 2022-04-05, which applied to all The Boeing Company Model 757 and 767 airplanes. AD 2022-04-05 required revising the limitations and operating procedures sections of the existing airplane flight manual (AFM) to incorporate specific operating procedures for landing distance calculations, instrument landing system (ILS) approaches, non-precision approaches, speedbrake deployment, and go-around and missed approaches, when in the presence of

interference from wireless broadband operations in the 3.7–3.98 GHz frequency band (5G C-Band) as identified by Notices to Air Missions (NOTAMs). Since the FAA issued AD 2022-04-05, the FAA determined that additional limitations are needed due to the continued deployment of new 5G C-Band base stations whose signals are expected to cover most of the contiguous United States at transmission frequencies between 3.7–3.98 GHz. This AD requires revising the limitations and operating procedures sections of the existing AFM to incorporate specific operating procedures for landing distance calculations, ILS approaches, non-precision approaches, speedbrake deployment, and go-around and missed approaches, due to the presence of 5G C-Band interference. The FAA is issuing this AD to address the unsafe condition on these products.

**DATES:** This AD is effective June 21, 2023.

**ADDRESSES:** *AD Docket:* You may examine the AD docket at [regulations.gov](https://www.regulations.gov) under Docket No. **FAA-2023-0672**; 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.

**FOR FURTHER INFORMATION CONTACT:**

Brett Portwood, Continued Operational Safety Technical Advisor, COS Program Management Section, Operational Safety Branch, FAA, 3960 Paramount Boulevard, Lakewood, CA 90712–4137; phone: 817–222–5390; email: [operationalsafety@faa.gov](mailto:operationalsafety@faa.gov).

**SUPPLEMENTARY INFORMATION:**

**Background**

The FAA issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 to supersede AD 2022–04–05, Amendment 39–21947 (87 FR 8152, February 14, 2022) (AD 2022–04–05). AD 2022–04–05 applied to all The Boeing Company (Boeing) Model 757 and 767 airplanes. The NPRM published in the **Federal Register** on May 3, 2023 (88 FR 27742). The NPRM was prompted by a determination that radio altimeters cannot be relied upon to perform their intended function if they experience 5G C-Band interference, and a determination that, during approach, landings, and go-arounds, as a result of this interference, certain airplane systems may not properly function, resulting in increased flightcrew workload while on approach with the flight director, autothrottle, or autopilot engaged.

In the NPRM, the FAA proposed to retain the AFM revisions required by AD 2022–04–05 until June 30, 2023. On or before June 30, 2023, the FAA proposed to require replacing those AFM revisions with limitations requiring the same procedures for dispatch or release to airports, and approach, landing, and go-around on runways, at all airports for non-radio altimeter tolerant airplanes. For radio altimeter tolerant airplanes, the FAA proposed that the procedures would not be required at 5G C-Band mitigated airports (5G CMAs) as identified in an FAA Domestic Notice. The FAA proposed this AD to address 5G C-Band interference that could result in increased flightcrew workload and could lead to reduced ability of the flightcrew to maintain safe flight and landing of the airplane.

**Discussion of Final Airworthiness Directive**

**Comments**

The FAA provided the public with an opportunity to comment on the proposed AD and received comments from five commenters. The following presents the comments received on the NPRM and the FAA's response to each comment.

**Support for NPRM**

Boeing and the Air Line Pilots Association, International (ALPA), supported the NPRM without change.

The supportive comments from ALPA included additional viewpoints without a suggestion specific to the AD or a request the FAA can act on. These comments are outside the scope of this final rule.

**Request To Revise AFM Limitations**

*Comment summary:* Northern Air Cargo, LLC, requested the FAA revise the proposed AD to allow the flight directors, autothrottle, and autopilot to remain engaged during a CAT I ILS approach until an anomaly is detected, at which time the pilot would immediately disconnect the flight directors, autothrottle, and autopilot and execute a go-around. The commenter stated this would reduce flightcrew workload during normal operations and not handicap every ILS approach based on a very remote possibility of 5G interference.

*FAA response:* The FAA disagrees. Boeing has not submitted any substantiating safety risk assessment data to show that the flight directors, autothrottle, and autopilot can remain safely engaged during a CAT I ILS approach.

**Request To Extend Compliance Time**

*Comment summary:* American Airlines expressed concern regarding the compliance time for the proposed actions and requested the FAA revise the AD to provide a minimum of 30 days from the effective date of the AD.

*FAA response:* The FAA understands the commenter's concern and made every effort to publish this AD as soon as possible. After refraining from operating at their FCC-authorized levels for a year and a half, wireless companies are now able to operate at higher levels, yet still not at the levels authorized. Specifically, wireless companies expect to operate their networks in urban areas with minimal restrictions due to the completion of retrofits. Additionally, the FAA anticipates 19 additional telecommunication companies will begin transmitting in the C-Band after June 30, 2023. Although the FAA continues to work with the companies that intend to transmit in the 3.7–3.98-GHz band near 5G CMAs, the FAA has no agreement with those companies to provide the FAA with tower locations and other information necessary to support the current NOTAM/AMOC process. Therefore, the FAA will not be able to extend the June 30, 2023, date.

**Effect of Winglets on Accomplishment of the Proposed Actions**

*Comment summary:* Aviation Partners Boeing stated that installing winglets under supplemental type certificate (STC) ST01518SE and STC ST01920SE on applicable Boeing models does not affect accomplishment of the actions specified in the proposed AD.

*FAA response:* The FAA agrees. The FAA has not changed this AD in this regard.

**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. This AD is adopted as proposed in the NPRM.

**Interim Action**

The FAA considers this AD to be an interim action. Once the Technical Standard Order (TSO) standard for radio altimeters is established, which will follow the existing international technical consensus on the establishment of the minimum operational performance standards (MOPS), the FAA anticipates that the MOPS will be incorporated into the TSO. Once a new radio altimeter TSO is developed, approved, and available, the FAA might consider additional rulemaking.

**Effective Date**

Section 553(d) of the Administrative Procedure Act (APA) (5 U.S.C. 551 *et seq.*) requires publication of a rule not less than 30 days before its effective date. However, section 553(d) authorizes agencies to make rules effective in less than 30 days when the agency finds “good cause.” Radio altimeters cannot be relied upon to perform their intended function if they experience interference from wireless broadband operations in the 5G C-Band. This interference can cause other airplane systems to not properly function, resulting in increased flightcrew workload while on approach with the flight director, autothrottle, or autopilot engaged. To address this unsafe condition, the actions required by this AD must be accomplished before the compliance date of June 30, 2023. The FAA based this date on the changes to the 5G C-Band environment beginning on July 1, 2023. These changes include increased wireless broadband deployment and transmissions closer to the parameters authorized by the FCC. The earlier operators learn of the requirements in

this AD, the earlier they can take action to ensure compliance. An effective date less than 30 days would ensure the AD is codified earlier, thereby increasing awareness of its requirements. Therefore, the FAA finds that good cause exists pursuant to 5 U.S.C. 553(d) for making this amendment immediately effective.

### Costs of Compliance

The cost information below describes the costs to change the AFM. Although this AD largely maintains the AFM limitations currently required by AD 2022–04–05, the FAA acknowledges that this AD may also impose costs on some aircraft operators from having to

change their conduct to comply with the amended AFM. However, the FAA lacks the data necessary to quantify the costs associated with aircraft operators changing their conduct.

The FAA estimates that this AD affects 1,108 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
AFM revision (retained actions from AD 2022–04–05)	1 work-hour × \$85 per hour <sup>1</sup> = \$85	\$0	\$85	\$94,180
New AFM revisions (new action) .....	1 work-hour × \$85 per hour = \$85 ..	0	85	<sup>2</sup> 94,180

<sup>1</sup> The labor rate of \$85 per hour is the average wage rate for an aviation mechanic.

<sup>2</sup> The estimated cost for this revision would not constitute a significant economic impact (even for small entities) because \$85 is a minimal cost compared to the regular costs of maintaining and operating a Model 757 or 767 transport category airplane.

### 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:
  - a. Removing Airworthiness Directive (AD) 2022–04–05, Amendment 39–21947 (87 FR 8152, February 14, 2022), and
  - b. Adding the following new AD:

**2023–12–12 The Boeing Company:**  
Amendment 39–22470; Docket No. FAA–2023–0672; Project Identifier AD–2022–01429–T.

#### (a) Effective Date

This airworthiness directive (AD) is effective June 21, 2023.

#### (b) Affected ADs

This AD replaces AD 2022–04–05, Amendment 39–21947 (87 FR 8152, February 14, 2022) (AD 2022–04–05).

#### (c) Applicability

This AD applies to all The Boeing Company airplanes identified in paragraphs (c)(1) and (2) of this AD, certificated in any category.

- (1) Model 757–200, –200PF, –200CB, and –300 series airplanes.
- (2) Model 767–200, –300, –300F, –400ER, and –2C series airplanes.

### (d) Subject

Air Transport Association (ATA) of America Code 34, Navigation.

### (e) Unsafe Condition

This AD was prompted by a determination that radio altimeters cannot be relied upon to perform their intended function if they experience interference from wireless broadband operations in the 3.7–3.98 GHz frequency band (5G C-Band), and a determination that, during approach, landings, and go-arounds, as a result of this interference, certain airplane systems may not properly function, resulting in increased flightcrew workload while on approach with the flight director, autothrottle, or autopilot engaged. The FAA is issuing this AD to address 5G C-Band interference that could result in increased flightcrew workload and could lead to reduced ability of the flightcrew to maintain safe flight and landing of the airplane.

### (f) Compliance

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

### (g) Definitions

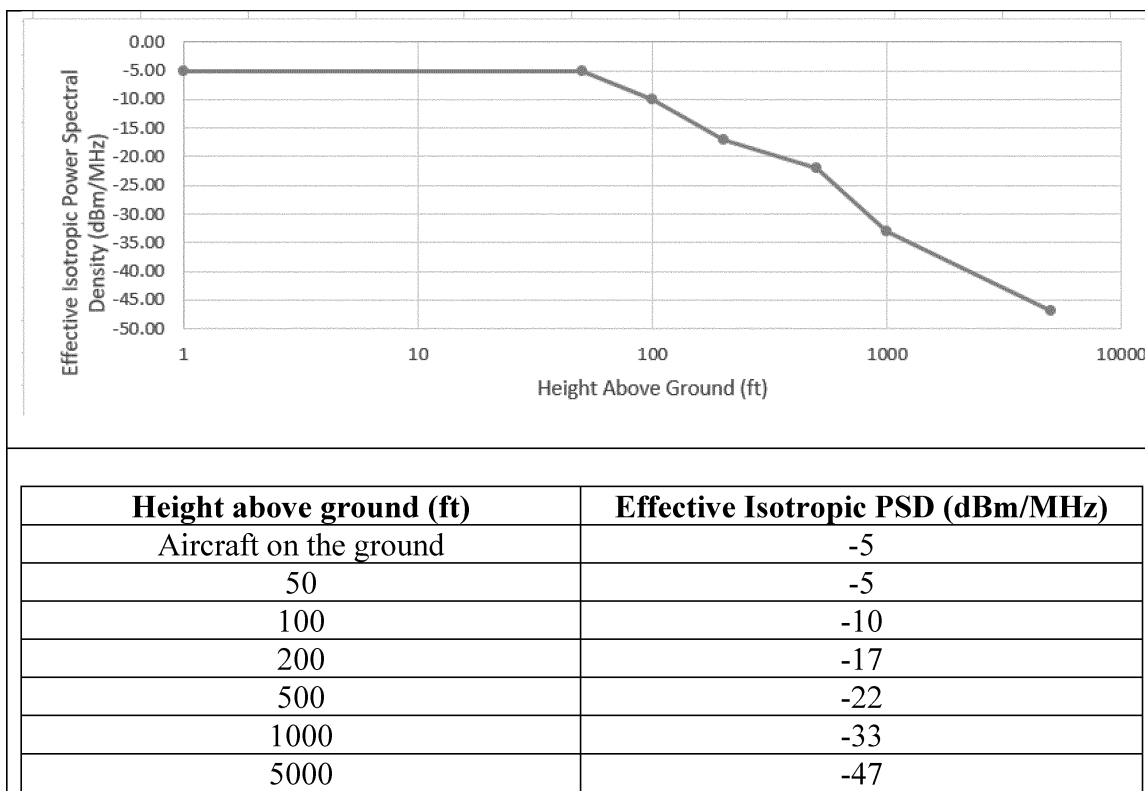
(1) For purposes of this AD, a "5G C-Band mitigated airport" (5G CMA) is an airport at which the telecommunications companies have agreed to voluntarily limit their 5G deployment at the request of the FAA, as identified by an FAA Domestic Notice.

(2) For purposes of this AD, a "radio altimeter tolerant airplane" is one for which the radio altimeter, as installed, demonstrates the tolerances specified in paragraphs (g)(2)(i) and (ii) of this AD, using a method approved by the FAA.

(i) Tolerance to radio altimeter interference, for the fundamental emissions (3.7–3.98 GHz), at or above the power spectral density (PSD) curve threshold specified in figure 1 to paragraph (g)(2)(i) of this AD.

**BILLING CODE 4910–13–P**

Figure 1 to paragraph (g)(2)(i)—*Fundamental Effective Isotropic PSD at Outside Interface of Aircraft Antenna*

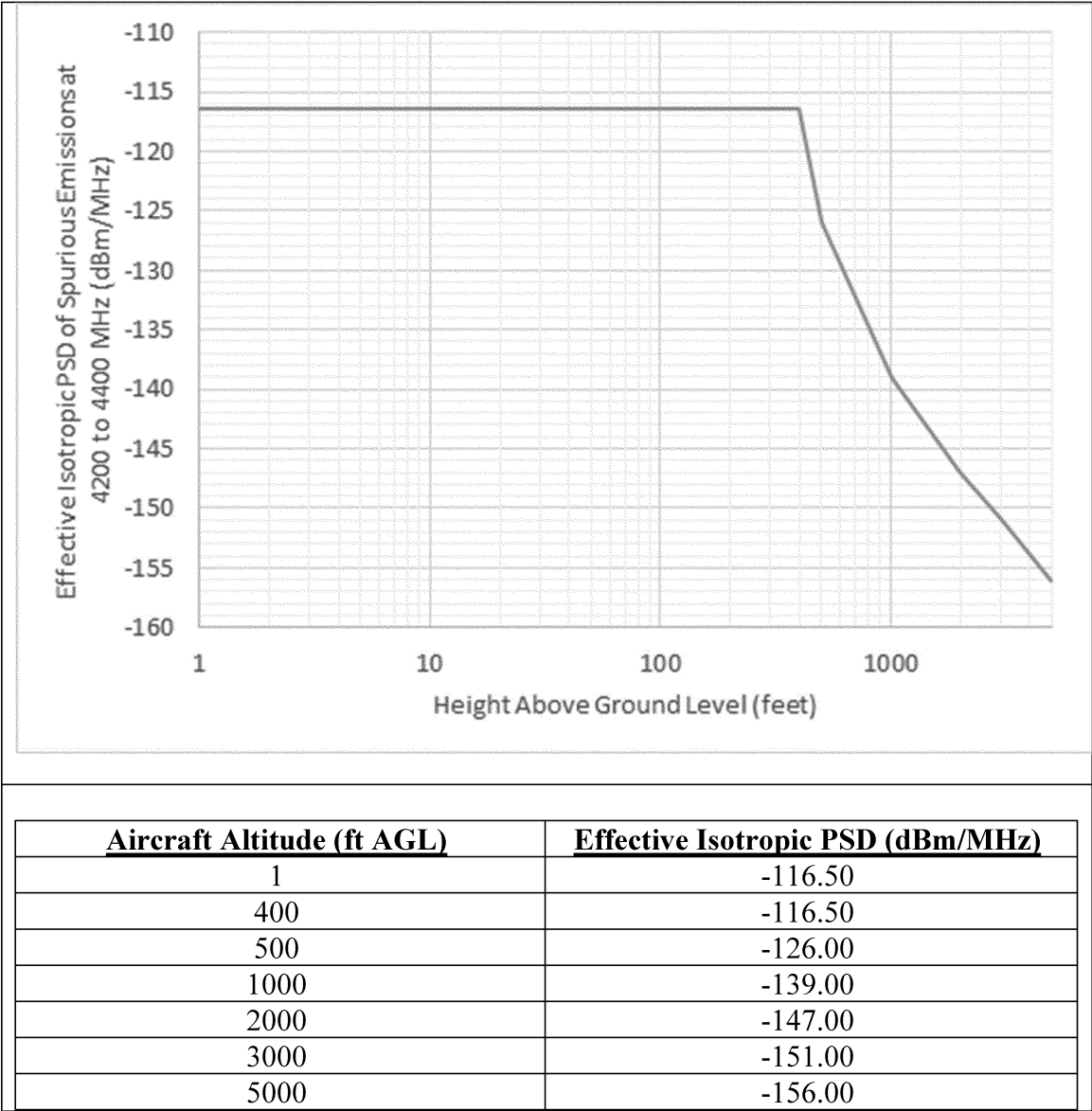


(ii) Tolerance to radio altimeter interference, for the spurious emissions (3.7–

3.98 GHz), at or above the PSD curve

threshold specified in figure 2 to paragraph (g)(2)(ii) of this AD.

Figure 2 to paragraph (g)(2)(ii)—*Spurious Effective Isotropic PSD at Outside Interface of Aircraft Antenna*



(3) For purposes of this AD, a “non-radio altimeter tolerant airplane” is one for which the radio altimeter, as installed, does not demonstrate the tolerances specified in paragraphs (g)(2)(i) and (ii) of this AD.

**(h) Retained Airplane Flight Manual (AFM) Revision**  
This paragraph restates the requirements of paragraph (g) of AD 2022–04–05.  
(1) Within 2 days after February 14, 2022 (the effective date of AD 2022–04–05): Revise

the Limitations Section of the existing AFM to include the information specified in figure 3 to paragraph (h)(1) of this AD. This may be done by inserting a copy of figure 3 to paragraph (h)(1) of this AD into the existing AFM.

Figure 3 to paragraph (h)(1)—AFM  
Limitations Revisions

(Required by AD 2022-04-05)

**Radio Altimeter 5G C-Band Interference, Approach, Landing, and Go-Around**

The following limitations are required for dispatch or release to airports, and approach, landing, and go-around on runways, in U.S. airspace in the presence of 5G C-Band wireless broadband interference as identified by NOTAM (NOTAMs will be issued to state the specific airports or approaches where the radio altimeter is unreliable due to the presence of 5G C-Band wireless broadband interference).

**Approach, Landing, and Go-Around**

Operators must use the Radio Altimeter 5G C-Band Interference, Approach, Landing, and Go-Around procedure contained in the Operating Procedures Section of this AFM.

(2) Within 2 days after February 14, 2022 (the effective date of AD 2022-04-05): Revise the Operating Procedures Section of the existing AFM to include the information

specified in figure 4 to paragraph (h)(2) of this AD. This may be done by inserting a copy of figure 4 to paragraph (h)(2) of this AD

into the Operating Procedures Section of the existing AFM.

Figure 4 to paragraph (h)(2)—AFM Operating Procedures Revision

(Required by AD 2022-04-05)

**Radio Altimeter 5G C-Band Interference, Approach, Landing, and Go-Around**

**Landing Distance Calculations**

For airplanes with Yaw Damper Stabilizer Trim module (YSM), adjust the operational (time of arrival) landing distance for manual speedbrake deployment if MAX MANUAL braking is required. When using autobrakes, no correction is needed since the calculations already take into account that manual speedbrake deployment may be needed.

**ILS Approaches**

For ILS approaches not prohibited by AD 2021-23-12, disconnect the autopilot and autothrottle, and place both flight director switches to OFF prior to glideslope intercept.

**Non-Precision Approaches**

Non-precision instrument approaches can be conducted using VNAV or V/S with flight directors, autopilot, and autothrottle to published minimums.

**During Landing**

For airplanes with Yaw Damper Stabilizer Trim module (YSM), if MAX MANUAL braking is required, manually deploy the speedbrake if it does not deploy automatically.

**During Go-Around and Missed Approach**

If the flight director is ON, cycle to OFF, then ON, as needed.  
If the flight director is OFF, turn ON, as needed.

**(i) New Requirement: AFM Limitations  
Revision for Non-Radio Altimeter Tolerant  
Airplanes**

For non-radio altimeter tolerant airplanes, do the actions specified in paragraphs (i)(1) and (2) of this AD.

(1) On or before June 30, 2023, revise the Limitations Section of the existing AFM to

include the information specified in figure 5 to paragraph (i) of this AD. This may be done by inserting a copy of figure 5 to paragraph (i) of this AD into the existing AFM. Incorporating the AFM revision required by this paragraph terminates the AFM revision required by paragraph (h)(1) of this AD.

(2) Before further flight after incorporating the limitations specified in figure 5 to paragraph (i) of this AD, remove the AFM revision required by paragraph (h)(1) of this AD.

Figure 5 to paragraph (i)—*AFM Limitations Revision for Non-Radio Altimeter Tolerant Airplanes*

**(Required by AD 2023-12-12)**

**Radio Altimeter 5G C-Band Interference, Approach, Landing, and Go-Around**

Due to the presence of 5G C-Band wireless broadband interference, the following limitations are required for dispatch or release to airports, and approach, landing, and go-around on runways, in the contiguous U.S. airspace.

**Approach, Landing, and Go-Around**

Operators must use the Radio Altimeter 5G C-Band Interference, Approach, Landing, and Go-Around procedure contained in the Operating Procedures Section of this AFM.

**(j) New Requirement: AFM Limitations  
Revision for Radio Altimeter Tolerant  
Airplanes**

For radio altimeter tolerant airplanes, do the actions specified in paragraphs (j)(1) and (2) of this AD.

(1) On or before June 30, 2023, revise the Limitations Section of the existing AFM to

include the information specified in figure 6 to paragraph (j) of this AD. This may be done by inserting a copy of figure 6 to paragraph (j) of this AD into the existing AFM. Incorporating the AFM revision required by this paragraph terminates the AFM revision required by paragraph (h)(1) of this AD.

(2) Before further flight after incorporating the limitations specified in figure 6 to paragraph (j) of this AD, remove the AFM revision required by paragraph (h)(1) of this AD.

Figure 6 to paragraph (j)—*AFM Limitations Revision for Radio Altimeter Tolerant Airplanes*

**(Required by AD 2023-12-12)**

**Radio Altimeter 5G C-Band Interference, Approach, Landing, and Go-Around**

Due to the presence of 5G C-Band wireless broadband interference, the following limitations are required for dispatch or release to airports, and approach, landing, and go-around on runways, in the contiguous U.S. airspace unless operating at a 5G C-Band mitigated airport as identified in an FAA *Domestic Notice*.

**Approach, Landing, and Go-Around**

Operators must use the Radio Altimeter 5G C-Band Interference, Approach, Landing, and Go-Around procedure contained in the Operating Procedures Section of this AFM.

**(k) New Requirement: AFM Operating  
Procedures Revision**

For all airplanes, do the actions specified in paragraphs (k)(1) and (2) of this AD.

(1) On or before June 30, 2023, revise the Operating Procedures Section of the existing AFM to include the information specified in

figure 7 to paragraph (k) of this AD. This may be done by inserting a copy of figure 7 to paragraph (k) of this AD into the existing AFM. Incorporating the AFM revision required by this paragraph terminates the AFM revision required by paragraph (h)(2) of this AD.

(2) Before further flight after incorporating the operating procedures specified in figure 7 to paragraph (k) of this AD, remove the AFM revision required by paragraph (h)(2) of this AD.

Figure 7 to paragraph (k)—*AFM Operating Procedures Revision*

(Required by AD 2023-12-12)

## **Radio Altimeter 5G C-Band Interference, Approach, Landing, and Go-Around**

### **Landing Distance Calculations**

For airplanes with Yaw Damper Stabilizer Trim module (YSM), adjust the operational (time of arrival) landing distance for manual speedbrake deployment if MAX MANUAL braking is required. When using autobrakes, no correction is needed since the calculations already take into account that manual speedbrake deployment may be needed.

### **ILS Approaches**

For ILS approaches other than SA CAT I, SA CAT II, CAT II, and CAT III, disconnect the autopilot and autothrottle, and place both flight director switches to OFF prior to glideslope intercept.

### **Non-Precision Approaches**

Non-precision instrument approaches can be conducted using VNAV or V/S with flight directors, autopilot, and autothrottle to published minimums.

### **During Landing**

For airplanes with Yaw Damper Stabilizer Trim module (YSM), if MAX MANUAL braking is required, manually deploy the speedbrake if it does not deploy automatically.

### **During Go-Around and Missed Approach**

If the flight director is ON, cycle to OFF, then ON, as needed.

If the flight director is OFF, turn ON, as needed.

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

(1) The Manager, 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 Operational Safety Branch, send it to the attention of the person identified in paragraph (m) 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) AMOCs approved for AD 2021–23–12, Amendment 39–21810 (86 FR 69984, December 9, 2021) providing relief for specific radio altimeter installations are approved as AMOCs for the requirements

specified in paragraph (h) of this AD until June 30, 2023.

#### **(m) Related Information**

For more information about this AD, contact Brett Portwood, Continued Operational Safety Technical Advisor, COS Program Management Section, Operational Safety Branch, FAA, 3960 Paramount Boulevard, Lakewood, CA 90712–4137; phone: 817–222–5390; email: *operationalsafety@faa.gov*.

#### **(n) Material Incorporated by Reference**

None.

Issued on June 9, 2023.

**Michael Linegang,**

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

[FR Doc. 2023–13153 Filed 6–16–23; 11:15 am]

**BILLING CODE 4910–13–C**

## **DEPARTMENT OF TRANSPORTATION**

### **Federal Aviation Administration**

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

**[Docket No. FAA–2023–0670; Project Identifier AD–2022–01427–T; Amendment 39–22463; AD 2023–12–05]**

**RIN 2120–AA64**

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

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Final rule.

**SUMMARY:** The FAA is superseding Airworthiness Directive (AD) 2022–03–05, which applied to all The Boeing Company Model 747–8F and 747–8 series airplanes and Model 777 airplanes. AD 2022–03–05 required