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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2016-8846; Directorate Identifier 2016-NM-046-AD; Amendment 39-18624; AD 2016-17-11]

RIN 2120-AA64

Airworthiness Directives; The Boeing Company Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule; request for comments.

SUMMARY: We are adopting a new airworthiness directive (AD) for certain The Boeing Company Model 787-8 airplanes. This AD requires a one-time inspection of the engine pylon wiring bracket on the left wing for the presence of an existing corner relief fillet, and corrective action if necessary. This AD was prompted by a report indicating that the engine pylon wiring bracket on certain airplanes was missing a corner relief fillet, which could result in stress concentration and cracking in the engine pylon wiring bracket. We are issuing this AD to detect and correct cracking in the engine pylon wiring bracket. Such cracking could result in damage to adjacent power feeders, subsequent electrical arcing in a flammable leakage zone, and consequent uncontrollable fire.

DATES: This AD is effective September 12, 2016.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of September 12, 2016.

We must receive comments on this AD by October 11, 2016.

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 <http://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: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC 20590, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For service information identified in this final rule, contact Boeing Commercial Airplanes, Attention: Data & Services Management, P.O. Box 3707, MC 2H-65, Seattle, WA 98124-2207; telephone 206-544-5000, extension 1; fax 206-766-5680; Internet <https://www.myboeingfleet.com>. You may view this referenced service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425-227-1221. It is also available on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2016-8846.

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-2016-8846; or in person at the Docket Management Facility between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this AD, the regulatory evaluation, any comments received, and other information. The street address for the Docket Office (phone: 800-647-5527) is in the ADDRESSES section. Comments will be available in the AD docket shortly after receipt.

FOR FURTHER INFORMATION CONTACT: Fnu Winarto, Aerospace Engineer, Systems and Equipment Branch, ANM-130S, FAA, Seattle Aircraft Certification Office (ACO), 1601 Lind Avenue SW., Renton, WA 98057-3356; phone: 425-917-6659; fax: 425-917-6590; email: fnu.winarto@faa.gov.

SUPPLEMENTARY INFORMATION:

Discussion

We received a report indicating that the engine pylon wiring bracket on certain airplanes is missing a corner relief fillet, because the engineering graphics for the engine pylon wiring bracket located on the left wing did not contain the corner relief fillet. A missing corner relief fillet could result in stress concentration and cracking in the bracket. The engineering graphics were subsequently revised to add the corner relief fillet, but the engine pylon wiring bracket part number was not changed. Therefore, brackets with and without an existing corner relief fillet have the same bracket part number. We are issuing this AD to prevent cracking in the engine pylon wiring bracket. Such cracking could result in damage to adjacent power feeders, subsequent electrical arcing in a flammable leakage zone, and consequent uncontrollable fire.

Related Service Information Under 1 CFR Part 51

We reviewed Boeing Alert Service Bulletin B787-81205-SB570012-00, Issue 001, dated March 14, 2013. The service information describes procedures for a one-time inspection of the engine pylon wiring bracket on the left wing for the presence of existing corner relief fillets, re-identification of any bracket with an existing corner relief fillet, and replacement of any bracket without an existing corner relief fillet. 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.

FAA's Determination

We are issuing this AD because we evaluated all the relevant information and determined the unsafe condition described previously is likely to exist or develop in other products of the same type design.

AD Requirements

This AD requires accomplishing the actions specified in the service information described previously.

FAA's Justification and Determination of the Effective Date

Currently, there are no domestic operators of the affected airplanes on the U.S. Register. Therefore, we find that notice and opportunity for prior public comment are unnecessary and that good cause exists for making this amendment effective in less than 30 days.

Comments Invited

This AD is a final rule that involves requirements affecting flight safety and was not preceded by notice and an opportunity for public comment. However, we invite you to send any written data, views, or arguments about this AD. Send your comments to an address listed under the ADDRESSES section. Include the docket number and Directorate Identifier 2016-NM-046-AD at the beginning of your comments. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of this AD. We will consider all comments received by the closing date and may amend this AD because of those comments.

We will post all comments we receive, without change, to <http://www.regulations.gov>, including any personal information you provide. We will also post a report summarizing each substantive verbal contact we receive about this AD.

Costs of Compliance

Currently, there are no affected airplanes on the U.S. Register. However, if an affected airplane is imported and placed on the U.S. Register in the future, 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
Inspection	3 work-hours × \$85 per hour = \$255	\$0	\$255	\$255

We estimate the following costs to do any necessary re-identification or replacement that will be required based on the results of the inspection. We have no way of determining the number of aircraft that might need re-identification or replacement:

On-Condition Costs

Action	Labor cost	Parts cost	Cost per product
Re-identification of bracket	2 work-hours × \$85 per hour = \$170	\$0	\$170
Replacement of bracket	8 work-hours × \$85 per hour = \$680	1,173	1,853

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.

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) 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 adding the following new airworthiness directive (AD):



2016-17-11 The Boeing Company: Amendment 39-18624; Docket No. FAA-2016-8846; Directorate Identifier 2016-NM-046-AD.

(a) Effective Date

This AD is effective September 12, 2016.

(b) Affected ADs

None.

(c) Applicability

This AD applies to The Boeing Company Model 787-8 airplanes, certificated in any category, as identified in Boeing Alert Service Bulletin B787-81205-SB570012-00, Issue 001, dated March 14, 2013.

(d) Subject

Air Transport Association (ATA) of America Code 57, Wings.

(e) Unsafe Condition

This AD was prompted by a report indicating that the engine pylon wiring bracket on certain airplanes was missing a corner relief fillet, which could lead to stress concentration and cracking in the engine pylon wiring bracket. We are issuing this AD to detect and correct cracking in the engine pylon wiring bracket. Such cracking could result in damage to adjacent power feeders, subsequent electrical arcing in a flammable leakage zone, and consequent uncontrollable fire.

(f) Compliance

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

(g) One-Time Inspection and Corrective Actions

Within 88 months after the effective date of this AD: Do a one-time general visual inspection of the engine pylon wiring bracket on the left wing for the presence of an existing corner relief fillet, in accordance with Part 1 of the Accomplishment Instructions of Boeing Alert Service Bulletin B787-81205-SB570012-00, Issue 001, dated March 14, 2013. Within 88 months after the effective date of this AD, do all applicable corrective actions specified in paragraph (g)(1) or (g)(2) of this AD.

(1) For airplanes on which the engine pylon wiring bracket has a corner relief fillet, re-identify the part number of the engine pylon wiring bracket, in accordance with Part 2 of the Accomplishment Instructions of Boeing Alert Service Bulletin B787-81205-SB570012-00, Issue 001, dated March 14, 2013.

(2) For airplanes on which the engine pylon wiring bracket does not have a corner relief fillet, replace the engine pylon wiring bracket with a new bracket, in accordance with Part 3 of the Accomplishment Instructions of Boeing Alert Service Bulletin B787-81205-SB570012-00, Issue 001, dated March 14, 2013.

(h) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Seattle Aircraft Certification Office (ACO), 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 ACO, send it to the attention of the person identified in paragraph (i) of this AD. Information may be emailed to: 9-ANM-Seattle-ACO-AMOC-Requests@faa.gov.

(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) An AMOC that provides an acceptable level of safety may be used for any repair required by this AD if it is approved by the Boeing Commercial Airplanes Organization Designation Authorization (ODA) that has been authorized by the Manager, Seattle ACO, to make those findings. For a repair method to be approved, the repair must meet the certification basis of the airplane, and the approval must specifically refer to this AD.

(i) Related Information

For more information about this AD, contact Fnu Winarto, Aerospace Engineer, Systems and Equipment Branch, ANM-130S, FAA, Seattle ACO, 1601 Lind Avenue SW., Renton, WA 98057-3356; phone: 425-917-6659; fax: 425-917-6590; email: fnu.winarto@faa.gov.

(j) 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 Service Bulletin B787-81205-SB570012-00, Issue 001, dated March 14, 2013.

(ii) Reserved.

(3) For service information identified in this AD, contact Boeing Commercial Airplanes, Attention: Data & Services Management, P.O. Box 3707, MC 2H-65, Seattle, WA 98124-2207; telephone 206-544-5000, extension 1; fax 206-766-5680; Internet <https://www.myboeingfleet.com>.

(4) You may view this referenced service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425-227-1221.

(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 Renton, Washington, on August 16, 2016.

Dorr M. Anderson,
Acting Manager, Transport Airplane Directorate,
Aircraft Certification Service.