

Office. The AMOC approval letter must specifically reference this AD.

Issued in Renton, Washington on November 10, 2010.

**Jeffrey E. Duven,**

*Acting Manager, Transport Airplane  
Directorate, Aircraft Certification Service.*

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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. FAA-2010-1115; Directorate Identifier 2010-NM-221-AD]

RIN 2120-AA64

#### **Airworthiness Directives; The Boeing Company Model 747-100, 747-100B, 747-100B SUD, 747-200B, 747-200C, 747-200F, 747-300, 747-400, 747-400D, 747-400F, 747SR, and 747SP Series Airplanes**

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

**ACTION:** Notice of proposed rulemaking (NPRM).

**SUMMARY:** We propose to adopt a new airworthiness directive (AD) for the products listed above. This proposed AD would require repetitive inspections for damage of the electrical terminal at the left and right flightdeck window 1, and corrective actions if necessary. This proposed AD would also allow for replacing the flightdeck window 1 with a new improved flightdeck window equipped with different electrical connections, which would terminate the repetitive inspections for that flightdeck window 1. This proposed AD was prompted by several reports of electrical arcs at the terminal blocks of the electrically heated flightdeck window 1. We are proposing this AD to prevent smoke and fire in the cockpit, which could lead to loss of visibility, and injuries to or incapacitation of the flightcrew.

**DATES:** We must receive comments on this proposed AD by January 3, 2011.

**ADDRESSES:** You may send comments 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:* Deliver to Mail address above between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For service information identified in this proposed AD, contact Boeing Commercial Airplanes, Attention: Data & Services Management, P.O. Box 3707, MC 2H-65, Seattle, Washington 98124-2207; telephone 206-544-5000, extension 1; fax 206-766-5680; e-mail [me.boecom@boeing.com](mailto:me.boecom@boeing.com); Internet <https://www.myboeingfleet.com>. You may review copies of the referenced service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue SW., Renton, Washington. For information on the availability of this material at the FAA, call 425-227-1221.

#### **Examining the AD Docket**

You may examine the AD docket on the Internet at <http://www.regulations.gov>; 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 proposed 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:**

Louis Natsiopoulos, Aerospace Engineer, Systems and Equipment Branch, ANM-130S, FAA, Seattle Aircraft Certification Office, 1601 Lind Avenue SW., Renton, Washington 98057-3356; telephone (425) 917-6478; fax (425) 917-6590.

#### **SUPPLEMENTARY INFORMATION:**

##### **Comments Invited**

We invite you to send any written relevant data, views, or arguments about this proposal. Send your comments to an address listed under the **ADDRESSES** section. Include "Docket No. FAA-2010-1115; Directorate Identifier 2010-NM-221-AD" at the beginning of your comments. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of this proposed AD. We will consider all comments received by the closing date and may amend this proposed 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 proposed AD.

#### **Discussion**

We have received multiple reports of electrical arcs at the terminal blocks of the flightdeck window 1. In several incidents, the arcs resulted in open flames. An investigation showed that the electrical arcs are caused by loose terminal connections, which are caused by incorrect torque of the screw or an incorrectly installed screw. A loose terminal connection will overheat with electrical current passing through it. An overheated connector can degrade the adjacent electrical circuit (including solder, if present). This condition, if not corrected, could result in smoke and fire in the cockpit, and consequent loss of visibility, and injuries to or incapacitation of the flightcrew.

#### **Relevant Service Information**

We have reviewed Boeing Special Attention Service Bulletin 747-30-2081, Revision 2, dated March 10, 2010. Boeing Special Attention Service Bulletin 747-30-2081, Revision 2, dated March 10, 2010, describes procedures for repetitive detailed inspections for damage (including but not limited to a cross-threaded screw, arcing, loose terminal, and heat damage) of the terminal block, connector, and wiring at the left and right flightdeck window 1, and corrective actions if necessary. The corrective actions are applying the correct torque to a loose electrical connection, repairing damaged wiring, or installing a replacement window 1. Boeing Special Attention Service Bulletin 747-30-2081, Revision 2, dated March 10, 2010, specifies a compliance time of within 500 hours after the date on the service bulletin for doing the initial detailed inspection.

Boeing Special Attention Service Bulletin 747-30-2081, Revision 2, dated March 10, 2010, specifies that the replacement window can either be a window that uses screws and lugs for the electrical connection or a window that uses pins and sockets for the electrical connections. For airplanes on which a replacement window that uses pins and sockets is installed, Boeing Special Attention Service Bulletin 747-30-2081, Revision 2, dated March 10, 2010, also specifies changes to the related wire bundle. Boeing Special Attention Service Bulletin 747-30-2081, Revision 2, dated March 10, 2010, specifies that installing a window that uses pins and sockets eliminates the need for the repetitive inspections. If the window is replaced with the same type of window (i.e., windows with the screw and lug type electrical terminations), then the inspection must be repeated within 500 flight hours from

the date of the accomplishment of these corrective actions and every 6,000 flight hours thereafter.

**Related Rulemaking**

We issued AD 2010–15–01, Amendment 39–16367 (75 FR 39804, July 13, 2010), that applies to certain Model 757 airplanes, Model 767 airplanes, and Model 777–200 and –300 series airplanes. That AD requires repetitive inspections for damage (e.g., of the electrical terminal at the left and right flightdeck window 1), and corrective actions if necessary. That AD also allows for replacing the flightdeck window 1 with a new improved flightdeck window equipped with different electrical connections, which terminates the repetitive inspections for that flightdeck window 1. That AD results from several reports of electrical arcs at the terminal blocks of the electrically heated flightdeck window 1. We issued that AD to prevent smoke and fire in the cockpit, which could lead to loss of visibility, and injuries to or incapacitation of the flightcrew.

**FAA’s Determination**

We are proposing 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 these same type designs.

**Proposed AD Requirements**

This proposed AD would require accomplishing the actions specified in the service information described previously, except as discussed under “Differences Between the Proposed AD and the Service Information.”

**Differences Between the Proposed AD and the Service Information**

Boeing Special Attention Service Bulletin 747–30–2081, Revision 2, dated March 10, 2010, does not explicitly specify an inspection for, nor specify a corrective action for, airplanes on which a screw is found cross threaded during the detailed inspections in paragraph (g) of this proposed AD. If these conditions are found, paragraph (i) of this proposed AD would require replacing the windshield either before further flight if the screw is found to be loose, or within 500 flight hours or 150 days after the inspection if the screw is found to be tight, whichever occurs first.

Where Boeing Special Attention Service Bulletin 747–30–2081, Revision 2, dated March 10, 2010, specifies an interval for repetitive inspections not to exceed 6,000 flight hours, paragraphs (g) and (h) of this proposed AD would require repetitive inspections at intervals not to exceed 6,000 flight hours or 24 months, whichever occurs later. We have determined that this revised interval will not adversely affect safety of the affected airplanes. Boeing concurs with this extension of the interval for the repetitive inspections.

**Clarifications of Service Information**

Where Boeing Special Attention Service Bulletin 747–30–2081, Revision 2, dated March 10, 2010, and paragraph (h) of this proposed AD state to perform a detailed inspection for damage of the terminal block, connector, and wiring of flightdeck window 1 “within 500 flight hours,” it is also acceptable to do the inspection at zero flight hours (i.e., before the airplane ever leaves the hangar and resumes operations). The intent of this second inspection is for quality assurance purposes. This clarification has been coordinated with Boeing.

We have added paragraph (k) of this proposed AD to clarify that each window is handled separately. In the compliance table in paragraph 1.E., “Compliance,” of Boeing Special Attention Service Bulletin 747–30–2081, Revision 2, dated March 10, 2010, the repeat interval applies to the action, which is doing both Work Packages 1 and 2. If the left window is replaced with a window that uses pins and sockets for the electrical connection, then that replacement terminates the requirements of this proposed AD for that window only. The other window still needs to be inspected.

**Costs of Compliance**

We estimate that this proposed AD will affect 251 airplanes of U.S. registry. We estimate the following costs to comply with this proposed AD:

**ESTIMATED COSTS**

Action	Labor cost	Parts cost	Cost per product	Cost on U.S. operators
Inspection .....	1 work-hour × \$85 per hour = \$85 per inspection cycle.	None .....	\$85 per inspection cycle .....	\$21,335 per inspection cycle.

We estimate the following costs to do any necessary replacements that would

be required based on the results of the proposed inspection. We have no way of

determining the number of aircraft that might need these replacements:

**ON-CONDITION COSTS**

Action	Labor cost	Parts cost	Cost per product
Replacement of windshield .....	Up to 18 work-hours × \$85 per hour = \$1,530	Up to \$47,592 .....	Up to \$49,122.

**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**

We determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would 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 this proposed regulation:

(1) Is not a "significant regulatory action" under Executive Order 12866,

(2) Is not a "significant rule" under the 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.

#### The Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 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):

**The Boeing Company:** Docket No. FAA–2010–1115; Directorate Identifier 2010–NM–221–AD.

#### Comments Due Date

(a) We must receive comments by January 3, 2011.

#### Affected ADs

(b) None.

#### Applicability

(c) This AD applies to The Boeing Company Model 747–100, 747–100B, 747–100B SUD, 747–200B, 747–200C, 747–200F, 747–300, 747–400, 747–400D, 747–400F, 747SR, and 747SP series airplanes, certificated in any category; as identified in Boeing Special Attention Service Bulletin 747–30–2081, Revision 2, dated March 10, 2010.

#### Subject

(d) Joint Aircraft System Component (JASC)/Air Transport Association (ATA) of America Code 30: Ice and rain protection.

#### Unsafe Condition

(e) This AD results from several reports of electrical arcs at the terminal blocks of the

electrically heated flightdeck window 1. In several of the incidents, the arcs resulted in open flames. We are issuing this AD to prevent smoke and fire in the cockpit, which could lead to loss of visibility, and injuries to or incapacitation of the flightcrew.

#### Compliance

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

#### Detailed Inspection and Corrective Actions

(g) Within 500 flight hours after the effective date of this AD, do a detailed inspection for damage (including but not limited to a cross-threaded screw, arcing, loose terminal, and heat damage) of the terminal block, connector, and wiring of flightdeck window 1, and do all applicable corrective actions, by accomplishing the actions specified in Work Packages 1 and 2 of Boeing Special Attention Service Bulletin 747–30–2081, Revision 2, dated March 10, 2010, except as provided by paragraph (j) of this AD. Do all applicable corrective actions before further flight, except as required by paragraph (i) of this AD. Except as required by paragraphs (h) and (i) of this AD, repeat the detailed inspection thereafter at intervals not to exceed 6,000 flight hours or 24 months, whichever occurs later. Doing the replacement specified in paragraph (k) of this AD terminates the repetitive inspection requirements of this paragraph for the replaced flightdeck window 1.

(h) For airplanes on which a flightdeck window 1 is replaced with a window that uses screws and lugs for the electrical connections, in accordance with Work Package 1 or 2 of Boeing Special Attention Service Bulletin 747–30–2081, Revision 2, dated March 10, 2010: Except as provided by paragraph (j) of this AD, do the next detailed inspection within 500 flight hours after the corrective action, and repeat the inspection thereafter at intervals not to exceed 6,000 flight hours or 24 months, whichever occurs later. Doing the replacement specified in paragraph (k) of this AD terminates the repetitive inspection requirements of this paragraph for the replaced flightdeck window 1.

#### Exceptions to the Service Bulletin

(i) If, during the inspection required by paragraph (g) of this AD, a screw is found cross threaded do the applicable corrective action specified in paragraph (i)(1) or (i)(2) of this AD.

(1) If the terminal lug is loose and cannot be tightened: Before further flight, replace the window, in accordance with the Accomplishment Instructions of Boeing Special Attention Service Bulletin 747–30–2081, Revision 2, dated March 10, 2010.

(2) If the terminal lug is tight: Within 150 days or 500 flight hours after the inspection, whichever occurs first, replace the window, in accordance with the Accomplishment Instructions of Boeing Special Attention Service Bulletin 747–30–2081, Revision 2, dated March 10, 2010.

(j) Where paragraph 1.E. of Boeing Special Attention Service Bulletin 747–30–2081, Revision 2, dated March 10, 2010, states in the "Action" column to "do the inspections

given in Work Packages 1 and 2," the intent is "Work Package 1, step 3. or Work Package 2, step 3., as applicable." Operators are to use one or the other (or both) work instruction, as applicable, to replace the window(s) that need replacing.

#### Optional Terminating Action

(k) Replacing a flightdeck window 1 that uses screws and lugs for the electrical connections with a flightdeck window that uses pins and sockets for the electrical connections, in accordance with Work Packages 3 or 4 of Boeing Special Attention Service Bulletin 747–30–2081, Revision 2, dated March 10, 2010, ends the repetitive inspection requirements of this AD for that window only.

#### Credit for Actions Accomplished Previously According to Previous Issue of Service Information

(l) Actions accomplished before the effective date of this AD in accordance with Boeing Special Attention Service Bulletin 747–30–2081, dated August 08, 2006; or Revision 1, dated August 20, 2008; are considered acceptable for compliance with the corresponding actions specified in this AD.

#### Alternative Methods of Compliance (AMOCs)

(m)(1) The Manager, Seattle Aircraft Certification Office, 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 the Related Information section of this AD. Information may be e-mailed to: [9-ANM-Seattle-ACO-AMOC-Requests@faa.gov](mailto:9-ANM-Seattle-ACO-AMOC-Requests@faa.gov).

(2) Before using any approved AMOC, notify your Principal Maintenance Inspector or Principal Avionics Inspector, as appropriate, or lacking a principal inspector, your local Flight Standards District Office.

#### Related Information

(n) For more information about this AD, contact Louis Natsiopoulou, Aerospace Engineer, Systems and Equipment Branch, ANM–130S, FAA, Seattle Aircraft Certification Office, 1601 Lind Avenue SW., Renton, Washington 98057–3356; telephone: (425) 917–6478; fax: (425) 917–6590; e-mail: [Elias.Natsiopoulou@faa.gov](mailto:Elias.Natsiopoulou@faa.gov).

(o) For service information identified in this AD, contact Boeing Commercial Airplanes, Attention: Data & Services Management, P. O. Box 3707, MC 2H–65, Seattle, Washington 98124–2207; telephone 206–544–5000, extension 1; fax 206–766–5680; e-mail [me.boecom@boeing.com](mailto:me.boecom@boeing.com); Internet <https://www.myboeingfleet.com>. You may review copies of the referenced service information at the FAA, Transport Airplane Directorate, the FAA, 1601 Lind Avenue, SW., Renton, Washington. For information on the availability of this material at the FAA, call 425–227–1221.

Issued in Renton, Washington, on November 10, 2010.

Jeffrey E. Duven,

Acting Manager, Transport Airplane Directorate, Aircraft Certification Service.

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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Parts 61 and 183

[Docket No. FAA-2010-1127; Notice No. 2010-16]

RIN 2120-AJ42

#### Photo Requirements for Pilot Certificates

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

**ACTION:** Notice of proposed rulemaking (NPRM).

**SUMMARY:** This action would require a person to carry a pilot certificate with photo to exercise the privileges of the pilot certificate. This proposal responds to section 4022 of the Intelligence Reform and Terrorism Prevention Act (IRTPA). The FAA previously required all pilots to obtain a plastic certificate (excepting temporary certificates and student pilot certificates). This proposal furthers the fulfillment of IRTPA by requiring a photo of the pilot to be on all pilot certificates. The FAA also proposes to require student pilots to obtain a plastic certificate with photo. Student pilot certificates would also have the same duration as other pilot certificates. Additionally, because of the new photo requirements, this proposal modifies the application process and the fee structure for pilot certificates.

**DATES:** Send your comments on or before February 17, 2011.

**ADDRESSES:** You may send comments identified by Docket Number FAA-2010-1127 using any of the following methods:

- *Federal eRulemaking Portal:* Go to <http://www.regulations.gov> and follow the online instructions for sending your comments electronically.

- *Mail:* Send comments to Docket Operations, M-30; U.S. Department of Transportation, 1200 New Jersey Avenue, SE., Room W12-140, West Building Ground Floor, Washington, DC 20590-0001.

- *Hand Delivery or Courier:* Take comments to Docket Operations in Room W12-140 of the West Building Ground Floor at 1200 New Jersey Avenue, SE., Washington, DC, between

9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

- *Fax:* Fax comments to Docket Operations at 202-493-2251.

For more information on the rulemaking process, see the **SUPPLEMENTARY INFORMATION** section of this document.

*Privacy:* The FAA will post all comments received, without change, to <http://www.regulations.gov>, including any personal information you provide. Using the search function of our docket Web site, anyone can find and read the electronic form of all comments received into any of our dockets, including the name of the individual sending the comment (or signing the comment for an association, business, labor union, etc.). You may review DOT's complete Privacy Act Statement in the **Federal Register** published on April 11, 2000 (65 FR 19477-78) or you may visit <http://DocketsInfo.dot.gov>.

*Docket:* To read background documents or comments received, go to <http://www.regulations.gov> at any time and follow the online instructions for accessing the docket, or go to the Docket Operations in Room W12-140 of the West Building Ground Floor at 1200 New Jersey Avenue, SE., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

**FOR FURTHER INFORMATION CONTACT:** For technical questions concerning this proposed rule contact Lance Nuckolls, Certification and General Aviation Operations Branch, AFS-810, Flight Standards Service, Federal Aviation Administration, 800 Independence Avenue, SW., Washington, DC 20591; telephone (202) 267-8212; facsimile (202) 267-5094, e-mail [lance.nuckolls@faa.gov](mailto:lance.nuckolls@faa.gov). For legal questions concerning this proposed rule contact Robert Hawks, Air Traffic and Airman/Airport Certification Law Branch, AGC-240, Office of the Chief Counsel, Federal Aviation Administration, 800 Independence Avenue, SW., Washington, DC 20591; telephone (202) 267-7143; facsimile (202) 267-7971, e-mail [rob.hawks@faa.gov](mailto:rob.hawks@faa.gov).

**SUPPLEMENTARY INFORMATION:** Later in this preamble under the Additional Information section is a discussion of how you can comment on this proposal and how the FAA will handle your comments. Included in this discussion is related information about the docket, privacy, the handling of proprietary or confidential business information, and accessing related rulemaking documents.

#### Authority for This Rulemaking

The FAA's authority to issue rules on aviation safety is found in Title 49 of the United States Code. 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.

Under Subtitle VII, Part A, Subpart iii, Section 44703(b)(1)(C), the FAA may define the terms of an airman certificate the FAA Administrator finds necessary to ensure safety in air commerce. Additionally, Subtitle VII, Part A, Subpart iii, Section 44703(g)(1) permits modifications to the airman certification system to make the system more efficient in serving the needs of those enforcing laws related to combating acts of terrorism by ensuring verifiable identification of individuals applying for airman certificates. In Section 4022 of the Intelligence Reform and Terrorism Prevention Act of 2004 (IRTPA),<sup>1</sup> Congress required the FAA to promulgate regulations for the issuance of improved pilot licenses.

This rulemaking is within the scope of that authority because it prescribes the inclusion of a photo of the pilot on the pilot certificate in accordance with the IRTPA mandate. This rulemaking aids in preventing terrorism and in ensuring safety in air commerce by issuing certificates that conform to the IRTPA requirements.

#### Background

On March 12, 1990, the FAA published the Drug Enforcement Assistance notice of proposed rulemaking (55 FR 9270). That NPRM proposed changes to requirements for registration of aircraft, certification of pilots, and certification violations. The FAA intended this proposal to correct deficiencies in the FAA's aircraft registration and pilot certification systems identified in the Federal Aviation Administration Drug Enforcement Assistance Act of 1988 ("the DEA Act").<sup>2</sup> After the close of the comment period, the FAA determined that technological improvements could accomplish most requirements of the DEA Act. The FAA withdrew the NPRM on December 5, 2005 (70 FR 72403).

As part of the technological improvements, the FAA discontinued issuing paper certificates and began issuing plastic airman certificates in 2003. The plastic certificates are of high quality plastic card stock and have micro printing that contains certain

<sup>1</sup> Public Law 108-458, 118 Stat. 3638 (Dec. 17, 2004).

<sup>2</sup> Public Law 100-690, 102 Stat. 4181 (Nov. 18, 1988).