

Proposed Rules

Federal Register

Vol. 71, No. 197

Thursday, October 12, 2006

This section of the FEDERAL REGISTER contains notices to the public of the proposed issuance of rules and regulations. The purpose of these notices is to give interested persons an opportunity to participate in the rule making prior to the adoption of the final rules.

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2006-26043; Directorate Identifier 2005-NM-010-AD]

RIN 2120-AA64

Airworthiness Directives; McDonnell Douglas Model 717-200 Airplanes

AGENCY: Federal Aviation Administration (FAA), Department of Transportation (DOT).

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: The FAA proposes to adopt a new airworthiness directive (AD) for all McDonnell Douglas Model 717-200 airplanes. This proposed AD would require inspecting the power conversion distribution unit (PCDU) to determine its part number, and modifying certain PCDUs. This proposed AD is prompted by reports of failed PCDUs, the loss of an electrical bus, and the presence of a strong electrical burning odor in the flight deck and forward cabin. We are proposing this AD to prevent the loss of an electrical bus due to a PCDU failure, which could result in an abnormally long time for all flight deck displays to reconfigure, and consequent emergency landing.

DATES: We must receive comments on this proposed AD by November 27, 2006.

ADDRESSES: Use one of the following addresses to submit comments on this proposed AD.

- *DOT Docket Web site:* Go to <http://dms.dot.gov> and follow the instructions for sending your comments electronically.

- *Government-wide rulemaking Web site:* Go to <http://www.regulations.gov> and follow the instructions for sending your comments electronically.

- *Mail:* Docket Management Facility, U.S. Department of Transportation, 400 Seventh Street, SW., Nassif Building, room PL-401, Washington, DC 20590.

- *By fax:* (202) 493-2251.

- *Hand Delivery:* Room PL-401 on the plaza level of the Nassif Building, 400 Seventh Street, SW., Washington, DC, 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, Long Beach Division, 3855 Lakewood Boulevard, Long Beach, California 90846, Attention: Data and Service Management, Dept. C1-L5A (D800-0024).

You can examine the contents of this AD docket on the Internet at <http://dms.dot.gov>, or in person at the Docket Management Facility, U.S. Department of Transportation, 400 Seventh Street, SW., room PL-401, on the plaza level of the Nassif Building, Washington, DC. This docket number is FAA-2006-26043; the directorate identifier for this docket is 2005-NM-010-AD.

FOR FURTHER INFORMATION CONTACT:

Thomas Phan, Aerospace Engineer, Systems and Equipment Branch, ANM-130L, FAA, Los Angeles Aircraft Certification Office, 3960 Paramount Boulevard, Lakewood, California 90712-4137; telephone (562) 627-5342; fax (562) 627-5210.

SUPPLEMENTARY INFORMATION:

Comments Invited

We invite you to submit any relevant written data, views, or arguments regarding this proposed AD. Send your comments to an address listed under **ADDRESSES**. Include "Docket No. FAA-2006-26043; Directorate Identifier 2005-NM-010-AD" in the subject line of your comments. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of the proposed AD. We will consider all comments submitted by the closing date and may amend the proposed AD in light of those comments.

We will post all comments we receive, without change, to <http://dms.dot.gov>, including any personal information you provide. We will also post a report summarizing each

substantive verbal contact with FAA personnel concerning this proposed AD. Using the search function of that Web site, anyone can find and read the comments in any of our dockets, including the name of the individual who sent the comment (or signed the comment on behalf of an association, business, labor union, etc.). You can review DOT's complete Privacy Act Statement in the **Federal Register** published on April 11, 2000 (65 FR 19477-78), or you can visit <http://dms.dot.gov>.

Examining the Docket

You can examine the AD docket on the Internet at <http://dms.dot.gov>, or in person at the Docket Management Facility office between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The Docket Management Facility office (telephone (800) 647-5227) is located on the plaza level of the Nassif Building at the DOT street address stated in the **ADDRESSES** section. Comments will be available in the AD docket shortly after the DMS receives them.

Discussion

We have received reports of failed power conversion distribution units (PCDUs). Such failures resulted, by design, in the loss of an electrical bus (both AC and DC power). Following the loss of the electrical bus, the flight deck displays took an abnormally long time to reconfigure, and a strong electrical burning odor was noted in the flight deck and forward cabin. Investigation revealed a short in the power supply of the PCDU's generator control unit. The strong electrical burning odor in the cabin has been attributed to a failed PCDU on which a short condition can result in overheating of the power supply T1 transformer. Further, service history has shown that an intermittent loss of engine N2 speed signal to the PCDU can result in a bus tie lockout condition and automatic activation of the emergency power. The loss of an electrical bus due to a failed PCDU could result in an abnormally long time for all flight deck displays to reconfigure, and consequent emergency landing.

Relevant Service Information

We have reviewed Boeing Alert Service Bulletin 717–24A0028, Revision 1, dated December 20, 2005. The service bulletin describes procedures for modifying PCDUs having part number 762904E. The modification involves

modifying the printed wiring board (PWB) assembly A4 and installing new PCDU firmware.

The Boeing service bulletin refers to Hamilton Sundstrand Service Bulletin 40EGS22P–24–10, dated August 4, 2004, as an additional source of service information for the modification.

Hamilton Sundstrand Service Bulletin 40EGS22P–24–10 specifies the concurrent accomplishment of the actions specified in the Hamilton Sundstrand service bulletins listed in the following table:

CONCURRENT SERVICE BULLETINS

| Actions | Hamilton Sundstrand Service Bulletin | Revision level | Date |
|--|--------------------------------------|----------------|--------------------|
| Reworking the transformer rectifier unit assembly (TRU) | 40EGS22P–24–3 | Original | June 30, 2000. |
| Reworking the W3 wiring harness assembly to install direct lead wires to the TRU. | | | |
| Adding a ground wire to the TRU transformer. | | | |
| Adding an insulated spacer to the PCDU top cover. | | | |
| Installing new PCDU 186 firmware | 40EGS22P–24–4 | Original | April 26, 2001. |
| | | 1 | January 2, 2002. |
| Installing new PCDU 186 firmware | 40EGS22P–24–6 | Original | July 25, 2002. |
| Modifying the top cover of the PCDU | 40EGS22P–24–7 | Original | September 3, 2003. |
| Modifying PWB assemblies A4 and A5 | 40EGS22P–24–8 | Original | September 4, 2003. |
| Checking and applying torque seal to fasteners on the TRU assembly and to PCDU internal fasteners, if necessary. | | | |
| Modifying PWB assembly A4 | 40EGS22P–24–9 | Original | November 19, 2003. |

Accomplishing the actions specified in the service information is intended to adequately address the unsafe condition.

FAA's Determination and Requirements of the Proposed AD

We have evaluated all pertinent information and identified an unsafe

condition that is likely to exist or develop on other airplanes of this same type design. Therefore, we are proposing this AD, which would require identifying the part number of the PCDU and accomplishing the applicable actions specified in the service information described previously.

Costs of Compliance

There are about 137 airplanes of the affected design in the worldwide fleet and 108 U.S.-registered airplanes. The following table provides the estimated costs for U.S. operators to comply with this proposed AD.

ESTIMATED COSTS FOR PRIMARY ACTIONS

| Boeing Service Bulletin | Work hours | Labor rate per hour | Parts cost | Cost per airplane |
|----------------------------------|------------|---------------------|------------|-------------------|
| Part number identification | 1 | \$80 | \$0 | \$80 |
| Modification (717–24A0028) | 12 | 80 | 0 | 960 |

ESTIMATED COSTS FOR CONCURRENT ACTIONS

| Hamilton Sundstrand Service Bulletin | Work hours | Labor rate per hour | Parts cost | Cost per airplane |
|--------------------------------------|------------|---------------------|--|-------------------|
| 40EGS22P–24–3 | 6 | \$80 | \$154, per airplane | \$634 |
| 40EGS22P–24–4 | 3 | 80 | 0 | 240 |
| 40EGS22P–24–6 | 3 | 80 | 0 | 240 |
| 40EGS22P–24–7 | 1 per PCDU | 80 | 10 per PCDU, maximum 3 PCDUs per airplane. | ¹ 110 |
| 40EGS22P–24–8 | 10 | 80 | 0 | 800 |
| 40EGS22P–24–9 | 10 | 80 | 0 | 800 |

¹ Maximum.

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 have 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 that the 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); 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.

We prepared a regulatory evaluation of the estimated costs to comply with this proposed AD. See the **ADDRESSES** section for a location to examine the regulatory evaluation.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, 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):

McDonnell Douglas: Docket No. FAA-2006-26043; Directorate Identifier 2005-NM-010-AD.

Comments Due Date

(a) The Federal Aviation Administration (FAA) must receive comments on this AD action by November 27, 2006.

Affected ADs

- (b) None.

Applicability

(c) This AD applies to all McDonnell Douglas Model 717-200 airplanes, certificated in any category.

Unsafe Condition

(d) This AD was prompted by reports of failed power conversion distribution units (PCDUs), the loss of an electrical bus, and the presence of a strong electrical burning odor in the flight deck and forward cabin. We are issuing this AD to prevent the loss of an

electrical bus due to a PCDU failure, which could result in an abnormally long time for all flight deck displays to reconfigure, and consequent emergency landing.

Compliance

(e) You are responsible for having the actions required by this AD performed within the compliance times specified, unless the actions have already been done.

Identification of PCDU Part Number

(f) Within 20 months after the effective date of this AD, inspect the PCDU to determine its part number. A review of airplane maintenance records is acceptable in lieu of this inspection if the part number can be conclusively determined from that review.

(1) If the part number is 762904E, do the actions specified in paragraphs (g) and (h) of this AD.

(2) If the part number is not 762904E, no further work is required by this AD.

Modification

(g) Within 20 months after the effective date of this AD, modify the PCDU in accordance with Boeing Alert Service Bulletin 717-24A0028, Revision 1, dated December 20, 2005. A modification done before the effective date of this AD in accordance with Boeing Alert Service Bulletin 717-24A0028, dated November 24, 2004, is acceptable for compliance with the requirements of this paragraph.

Note 1: Boeing Alert Service Bulletin 717-24A0028 refers to Hamilton Sundstrand Service Bulletin 40EGS22P-24-10, Revision 1, dated May 11, 2005, as an additional source of service information for the modification.

Concurrent Requirements

(h) Before or concurrently with the modification required by paragraph (g) of this AD, do the applicable actions specified in Table 1 of this AD.

TABLE 1.—CONCURRENT SERVICE BULLETINS

| Do the following— | In accordance with Hamilton Sundstrand Service Bulletin— |
|---|--|
| Rework the transformer rectifier unit assembly (TRU) | 40EGS22P-24-3, dated June 30, 2000. |
| Rework the W3 wiring harness assembly to install direct lead wires to the TRU. | |
| Add a ground wire to the TRU transformer. | |
| Add an insulated spacer to the PCDU top cover. | |
| Install new PCDU 186 firmware | 40EGS22P-24-4, Revision 1, dated January 2, 2002. |
| Install new PCDU 186 firmware | 40EGS22P-24-6, dated July 25, 2002. |
| Modify the top cover of the PCDU | 40EGS22P-24-7, dated September 3, 2003. |
| Modify printed wiring board (PWB) assemblies A4 and A5 | 40EGS22P-24-8, dated September 4, 2003. |
| Check and apply torque seal to fasteners on the TRU assembly and to PCDU internal fasteners, as applicable. | |
| Modify the PWB assembly A4 | 40EGS22P-24-9, dated November 19, 2003. |

Credit for Accomplishment of Earlier Service Bulletin

(i) Installation of new PCDU 186 firmware before the effective date of this AD in accordance with Hamilton Sundstrand Service Bulletin 40EGS22P-24-4, dated April 26, 2001, is acceptable for compliance

with the corresponding requirements of paragraph (h) of this AD.

Alternative Methods of Compliance (AMOCs)

(j) The Manager, Los Angeles Aircraft Certification Office (ACO), FAA, has the

authority to approve AMOCs for this AD, if requested in accordance with the procedures found in 14 CFR 39.19.

Issued in Renton, Washington, on October 3, 2006.

Kalene C. Yanamura,

Acting Manager, Transport Airplane Directorate, Aircraft Certification Service.

[FR Doc. E6-16891 Filed 10-11-06; 8:45 am]

BILLING CODE 4910-13-P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2006-26046; Directorate Identifier 2006-NM-172-AD]

RIN 2120-AA64

Airworthiness Directives; Bombardier Model CL-600-2B19 (Regional Jet Series 100 & 440) Airplanes

AGENCY: Federal Aviation Administration (FAA), Department of Transportation (DOT).

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: The FAA proposes to adopt a new airworthiness directive (AD) for certain Bombardier Model CL-600-2B19 (Regional Jet Series 100 & 440) airplanes. This proposed AD would require inspecting for discrepancies of the activation mechanism of certain chemical oxygen generators, and corrective action if necessary. This proposed AD results from several incidents, on certain airplane models, of incorrect installation of the release pin into the safety pin hole of the activation mechanism of the chemical oxygen generator; this resulted in failure to activate the chemical oxygen generator when required. A separate incident occurred on a different airplane model during deployment of the cabin oxygen system, which resulted in failure of the release pin to activate the oxygen generator at a flight attendant station. We are proposing this AD to prevent failure of the activation mechanism of the chemical oxygen generator, which could result in the unavailability of supplemental oxygen and possible incapacitation of passengers and cabin crew during an in-flight decompression.

DATES: We must receive comments on this proposed AD by November 13, 2006.

ADDRESSES: Use one of the following addresses to submit comments on this proposed AD.

- **DOT Docket Web site:** Go to <http://dms.dot.gov> and follow the instructions for sending your comments electronically.

- **Government-wide rulemaking Web site:** Go to <http://www.regulations.gov> and follow the instructions for sending your comments electronically.

- **Mail:** Docket Management Facility, U.S. Department of Transportation, 400 Seventh Street, SW., Nassif Building, room PL-401, Washington, DC 20590.

- **Fax:** (202) 493-2251.

- **Hand Delivery:** Room PL-401 on the plaza level of the Nassif Building, 400 Seventh Street, SW., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

Contact Bombardier, Inc., Canadair, Aerospace Group, P.O. Box 6087, Station Centre-ville, Montreal, Quebec H3C 3G9, Canada, for service information identified in this proposed AD.

FOR FURTHER INFORMATION CONTACT: Dan Parillo, Aerospace Engineer, Systems and Flight Test Branch, ANE-172, FAA, New York Aircraft Certification Office, 1600 Stewart Avenue, Suite 410, Westbury, New York 11590; telephone (516) 228-7305; fax (516) 794-5531.

SUPPLEMENTARY INFORMATION:

Comments Invited

We invite you to submit any relevant written data, views, or arguments regarding this proposed AD. Send your comments to an address listed in the **ADDRESSES** section. Include the docket number "FAA-2006-26046; Directorate Identifier 2006-NM-172-AD" at the beginning of your comments. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of the proposed AD. We will consider all comments received by the closing date and may amend the proposed AD in light of those comments.

We will post all comments we receive, without change, to <http://dms.dot.gov>, including any personal information you provide. We will also post a report summarizing each substantive verbal contact with FAA personnel concerning this proposed AD. Using the search function of that Web site, anyone can find and read the comments in any of our dockets, including the name of the individual who sent the comment (or signed the comment on behalf of an association, business, labor union, *etc.*). You may

review the DOT's complete Privacy Act Statement in the **Federal Register** published on April 11, 2000 (65 FR 19477-78), or you may visit <http://dms.dot.gov>.

Examining the Docket

You may examine the AD docket on the Internet at <http://dms.dot.gov>, or in person at the Docket Management Facility office between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The Docket Management Facility office (telephone (800) 647-5227) is located on the plaza level of the Nassif Building at the DOT street address stated in the **ADDRESSES** section. Comments will be available in the AD docket shortly after the Docket Management System receives them.

Discussion

Transport Canada Civil Aviation (TCCA), which is the airworthiness authority for Canada, notified us that an unsafe condition may exist on certain Bombardier Model CL-600-2B19 (Regional Jet Series 100 & 440) airplanes. TCCA advises that several incidents, on certain Bombardier airplane models, of incorrect installation of the release pin into the safety pin hole of the activation mechanism occurred in certain chemical oxygen generators; this resulted in failure to activate the chemical oxygen generators when required. A separate incident occurred on a Model CL-600-2C10 airplane during deployment of the cabin oxygen system, due to failure of the release pin to activate the oxygen generator at a flight attendant station. Investigation revealed that the release pin was not aligned with the lanyard tube in the mask container module, preventing activation of the oxygen generator. This condition, if not corrected, could result in the unavailability of supplemental oxygen and possible incapacitation of passengers and cabin crew during an in-flight decompression.

The design of the activation mechanism of the oxygen generator of the flight attendant and passenger service units on certain Model CL-600-2B19 airplanes is similar to the design of the activation mechanism installed on certain Model CL-600-2C10 airplanes. Therefore, all of these models may be subject to the identified unsafe condition. Further rulemaking is currently in process to address this