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**DEPARTMENT OF TRANSPORTATION**

**Federal Aviation Administration**

**14 CFR Part 39**

**[Docket No. FAA-2010-0432; Directorate Identifier 2010-NM-001-AD; Amendment 39-16430; AD 2010-19-02]**

**RIN 2120-AA64**

**Airworthiness Directives; Bombardier, Inc. Model DHC-8-200 and DHC-8-300 Series Airplanes**

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

**ACTION:** Final rule.

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**SUMMARY:** We are adopting a new airworthiness directive (AD) for the products listed above. This AD results from mandatory continuing airworthiness information (MCAI) originated by an aviation authority of another country to identify and correct an unsafe condition on an aviation product. The MCAI describes the unsafe condition as:

During a recent production fuel system test, it was found that all three flapper valves located in each collector tank did not conform to the design requirements, due to the fact that a valve spring was installed on the flapper hinge pin. This valve spring should have been removed prior to installation of the valves.

\* \* \* \* \*

With the valve spring installed, the flapper valve is held closed by the valve spring, preventing gravity feed. In the event of scavenge system failure, the collector tank fuel level can no longer be maintained, potentially leading to an in-flight engine shutdown.

\* \* \* \* \*

We are issuing this AD to require actions to correct the unsafe condition on these products.

**DATES:** This AD becomes effective October 18, 2010.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of October 18, 2010.

**ADDRESSES:** You may examine the AD docket on the Internet at <http://www.regulations.gov> or in person at the U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue, SE., Washington, DC.

**FOR FURTHER INFORMATION CONTACT:** Kent Fredrickson, Aerospace Engineer, Propulsion and Services Branch, ANE-173, FAA, New York Aircraft Certification Office (ACO), 1600 Stewart Avenue, Suite 410, Westbury, New York 11590; telephone (516) 228-7364; fax (516) 794-5531.

## **SUPPLEMENTARY INFORMATION:**

### **Discussion**

We issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 to include an AD that would apply to the specified products. That NPRM was published in the Federal Register on April 26, 2010 (75 FR 21530). That NPRM proposed to correct an unsafe condition for the specified products. The MCAI states:

During a recent production fuel system test, it was found that all three flapper valves located in each collector tank did not conform to the design requirements, due to the fact that a valve spring was installed on the flapper hinge pin. This valve spring should have been removed prior to installation of the valves.

It was subsequently determined that this condition is restricted to the 21 aircraft listed in the Applicability section above.

With the valve spring installed, the flapper valve is held closed by the valve spring, preventing gravity feed. In the event of scavenge system failure, the collector tank fuel level can no longer be maintained, potentially leading to an in-flight engine shutdown.

In order to ensure adequate fuel transfer to the collector tank at all times, this directive mandates a one-time [detailed] inspection of each of the six flapper valves, removal of the valve spring, if installed, and application of an identification mark on each inspected valve.

You may obtain further information by examining the MCAI in the AD docket.

### **Comments**

We gave the public the opportunity to participate in developing this AD. We received no comments on the NPRM or on the determination of the cost to the public.

### **Conclusion**

We reviewed the available data and determined that air safety and the public interest require adopting the AD as proposed.

### **Differences Between This AD and the MCAI or Service Information**

We have reviewed the MCAI and related service information and, in general, agree with their substance. But we might have found it necessary to use different words from those in the MCAI to ensure the AD is clear for U.S. operators and is enforceable. In making these changes, we do not intend to differ substantively from the information provided in the MCAI and related service information.

We might also have required different actions in this AD from those in the MCAI in order to follow our FAA policies. Any such differences are highlighted in a NOTE within the AD.

## **Costs of Compliance**

We estimate that this AD will affect 4 products of U.S. registry. We also estimate that it will take about 30 work-hours per product to comply with the basic requirements of this AD. The average labor rate is \$85 per work-hour. Based on these figures, we estimate the cost of this AD to the U.S. operators to be \$10,200, or \$2,550 per product.

## **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 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 this AD:

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 AD and placed it in the AD docket.

## **Examining the AD Docket**

You may examine the AD docket on the Internet at <http://www.regulations.gov>; or in person at the Docket Operations office between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains the NPRM, the regulatory evaluation, any comments received, and other information. The street address for the Docket Operations office (telephone (800) 647-5527) is in the ADDRESSES section. Comments will be available in the AD docket shortly after receipt.

## **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 AD:



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**2010-19-02 Bombardier, Inc.** Amendment 39-16430. Docket No. FAA-2010-0432; Directorate Identifier 2010-NM-001-AD.

**Effective Date**

- (a) This airworthiness directive (AD) becomes effective October 18, 2010.

**Affected ADs**

- (b) None.

**Applicability**

- (c) This AD applies to Bombardier, Inc. Model DHC-8-201, -202, -301, -311, and -315 airplanes, certificated in any category, having serial numbers 644 through 664 inclusive.

**Subject**

- (d) Air Transport Association (ATA) of America Code 28: Fuel.

**Reason**

- (e) The mandatory continuing airworthiness information (MCAI) states:

During a recent production fuel system test, it was found that all three flapper valves located in each collector tank did not conform to the design requirements, due to the fact that a valve spring was installed on the flapper hinge pin. This valve spring should have been removed prior to installation of the valves.

It was subsequently determined that this condition is restricted to the 21 aircraft listed in the Applicability section above.

With the valve spring installed, the flapper valve is held closed by the valve spring, preventing gravity feed. In the event of scavenge system failure, the collector tank fuel level can no longer be maintained, potentially leading to an in-flight engine shutdown.

In order to ensure adequate fuel transfer to the collector tank at all times, this directive mandates a one-time [detailed] inspection of each of the six flapper valves, removal of the valve spring, if installed, and application of an identification mark on each inspected valve.

## **Compliance**

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

## **Actions**

(g) Within 1,000 flight hours after the effective date of this AD, do a detailed inspection of each collector tank flapper valve for the presence of a valve spring, in accordance with the Accomplishment Instructions of Bombardier Service Bulletin 8-28-54, dated April 22, 2009. If the valve spring is not present, before further flight, apply an identification mark, in accordance with the Accomplishment Instructions of Bombardier Service Bulletin 8-28-54, dated April 22, 2009. If the valve spring is present, before further flight, remove the valve spring and apply an identification mark, in accordance with the Accomplishment Instructions of Bombardier Service Bulletin 8-28-54, dated April 22, 2009.

## **FAA AD Differences**

Note 1: This AD differs from the MCAI and/or service information as follows: No differences.

## **Other FAA AD Provisions**

(h) The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, New York Aircraft Certification Office (ACO), ANE-170, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. Send information to ATTN: Program Manager, Continuing Operational Safety, FAA, New York ACO, 1600 Stewart Avenue, Suite 410, Westbury, New York 11590; telephone 516-228-7300; fax 516-794-5531. Before using any approved AMOC on any airplane to which the AMOC applies, notify your principal maintenance inspector (PMI) or principal avionics inspector (PAI), as appropriate, or lacking a principal inspector, your local Flight Standards District Office. The AMOC approval letter must specifically reference this AD.

(2) Airworthy Product: For any requirement in this AD to obtain corrective actions from a manufacturer or other source, use these actions if they are FAA-approved. Corrective actions are considered FAA-approved if they are approved by the State of Design Authority (or their delegated agent). You are required to assure the product is airworthy before it is returned to service.

(3) Reporting Requirements: For any reporting requirement in this AD, under the provisions of the Paperwork Reduction Act (44 U.S.C. 3501 et seq.), the Office of Management and Budget (OMB) has approved the information collection requirements and has assigned OMB Control Number 2120-0056.

## **Related Information**

(i) Refer to MCAI Canadian Airworthiness Directive CF-2009-40, dated November 9, 2009; and Bombardier Service Bulletin 8-28-54, dated April 22, 2009; for related information.

## **Material Incorporated by Reference**

(j) You must use Bombardier Service Bulletin 8-28-54, dated April 22, 2009, to do the actions required by this AD, unless the AD specifies otherwise.

(1) The Director of the Federal Register approved the incorporation by reference of this service information under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) For service information identified in this AD, contact Bombardier, Inc., 400 Côte-Vertu Road West, Dorval, Québec H4S 1Y9, Canada; telephone 514-855-5000; fax 514-855-7401; e-mail [thd.qseries@aero.bombardier.com](mailto:thd.qseries@aero.bombardier.com); Internet <http://www.bombardier.com>.

(3) You may review copies of the 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.

(4) You may also review copies of the 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/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).

Issued in Renton, Washington, on September 2, 2010.

Jeffrey E. Duven,  
Acting Manager, Transport Airplane Directorate,  
Aircraft Certification Service.