

Issued in Kansas City, Missouri, on February 6, 2009.

Kim Smith,

Manager, Small Airplane Directorate, Aircraft Certification Service.

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2009-0125; Directorate Identifier 2009-CE-002-AD]

RIN 2120-AA64

Airworthiness Directives; Diamond Aircraft Industries GmbH Models DA 40 and DA 40F Airplanes

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

A number of wings manufactured by Diamond Aircraft Industries Inc. in Canada have been found to exhibit voids in the adhesive joint between the main spar caps and the upper wing skins. The available information indicates that wings with voids continue to meet the certification design limits, provided the voids are within established criteria. However, to detect any wings that may have voids exceeding these criteria, Diamond has issued Mandatory Service Bulletin MSB-40-060 and MSB-F4-016 (single document) that describes instructions for inspection of the aircraft that had these wings installed during manufacture. Aircraft that have voids within the inspection criteria may continue to operate without restriction, pending the outcome of ongoing investigations. Aircraft that have voids exceeding the inspection criteria must be repaired.

The proposed AD would require actions that are intended to address the unsafe condition described in the MCAI.

DATES: We must receive comments on this proposed AD by March 16, 2009.

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:* 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.

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 (telephone (800) 647-5527) is in the **ADDRESSES** section. Comments will be available in the AD docket shortly after receipt.

FOR FURTHER INFORMATION CONTACT:

Sarjapur Nagarajan, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4145; fax: (816) 329-4090.

SUPPLEMENTARY INFORMATION:

Comments Invited

We invite you to send any written relevant data, views, or arguments about this proposed AD. Send your comments to an address listed under the **ADDRESSES** section. Include "Docket No. FAA-2009-0125; Directorate Identifier 2009-CE-002-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

The European Aviation Safety Agency (EASA), which is the Technical Agent for the Member States of the European Community, has issued EASA AD No.: 2008-0224, dated December 16, 2008 (referred to after this as "the MCAI"), to

correct an unsafe condition for the specified products. The MCAI states:

A number of wings manufactured by Diamond Aircraft Industries Inc. in Canada have been found to exhibit voids in the adhesive joint between the main spar caps and the upper wing skins. The available information indicates that wings with voids continue to meet the certification design limits, provided the voids are within established criteria. However, to detect any wings that may have voids exceeding these criteria, Diamond has issued Mandatory Service Bulletin MSB-40-060 and MSB-F4-016 (single document) that describes instructions for inspection of the aircraft that had these wings installed during manufacture. Aircraft that have voids within the inspection criteria may continue to operate without restriction, pending the outcome of ongoing investigations. Aircraft that have voids exceeding the inspection criteria must be repaired.

For the reasons described above, this EASA AD requires the inspection of the affected aircraft to measure the voids in the adhesive joint between the main spar caps and the upper wing skin, the reporting of all findings to Diamond Aircraft Industries and the repair of any voids exceeding the criteria as specified in the MSB.

Relevant Service Information

Diamond Aircraft Industries GmbH has issued Mandatory Service Bulletins No. MSB-40-060 and No. MSB-F4-016 (single document), dated October 20, 2008. The actions described in this service information are intended to correct the unsafe condition identified in the MCAI.

FAA's Determination and Requirements of the Proposed AD

This product has been approved by the aviation authority of another country, and is approved for operation in the United States. Pursuant to our bilateral agreement with this State of Design Authority, they have notified us of the unsafe condition described in the MCAI and service information referenced above. We are proposing this AD because we evaluated all information and determined the unsafe condition exists and is likely to exist or develop on other products of the same type design.

Differences Between This Proposed 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 proposed different actions in this AD from those in the MCAI in order to follow FAA policies. Any such differences are highlighted in a Note within the proposed AD.

Costs of Compliance

We estimate that this proposed AD will affect 649 products of U.S. registry. We also estimate that it would take about 2 work-hours per product to comply with the basic requirements of this proposed AD. The average labor rate is \$80 per work-hour.

Based on these figures, we estimate the cost of the proposed AD on U.S. operators to be \$103,840, or \$160 per product.

Because a permanent resolution to this action has not yet been determined, we have no way of determining the cost of any necessary repairs or parts that may be required as a result of any proposed inspection.

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); 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 and placed it in the AD docket.

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 AD:

Diamond Aircraft Industries GmbH: Docket No. FAA-2009-0125; Directorate Identifier 2009-CE-002-AD.

Comments Due Date

(a) We must receive comments by March 16, 2009.

Affected ADs

(b) None.

Applicability

(c) This AD applies to the following model and serial number airplanes, certificated in any category: DA 40 airplanes serial numbers 40.377, 40.420, 40.422, 40.644 through 40.693, 40.695 through 40.842, 40.844, 40.846 through 40.887, 40.889 through 40.912, 40.915 through 40.917, 40.919 through 40.929, 40.931, 40.932, 40.934 through 40.940, 40.944 through 40.949, 40.951 through 40.953, 40.955 through 40.957, 40.961, 40.964, and 40.971; and DA 40F airplanes, serial numbers 40.FC007 through 40.FC029.

Subject

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

Reason

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

A number of wings manufactured by Diamond Aircraft Industries Inc. in Canada have been found to exhibit voids in the adhesive joint between the main spar caps and the upper wing skins. The available information indicates that wings with voids continue to meet the certification design limits, provided the voids are within established criteria. However, to detect any

wings that may have voids exceeding these criteria, Diamond has issued Mandatory Service Bulletin MSB-40-060 and MSB-F4-016 (single document) that describes instructions for inspection of the aircraft that had these wings installed during manufacture. Aircraft that have voids within the inspection criteria may continue to operate without restriction, pending the outcome of ongoing investigations. Aircraft that have voids exceeding the inspection criteria must be repaired.

For the reasons described above, this EASA AD requires the inspection of the affected aircraft to measure the voids in the adhesive joint between the main spar caps and the upper wing skin, the reporting of all findings to Diamond Aircraft Industries and the repair of any voids exceeding the criteria as specified in the MSB.

Actions and Compliance

(f) Unless already done, do the following actions following Diamond Aircraft Industries GmbH Mandatory Service Bulletins No. MSB-40-060 and No. MSB-F4-016 (single document), dated October 20, 2008:

(1) Within the next 100 hours time-in-service (TIS) after the effective date of this AD or within the next 3 months after the effective date of this AD, whichever occurs first, inspect the adhesive joint between the wing main spar caps and the upper wing skin for adhesive voids.

(2) Within the next 30 days after the inspection required in paragraph (f)(1) of this AD or within 30 days after the effective date of this AD, whichever occurs later, report the results to Diamond Aircraft Industries following the instructions in Diamond Aircraft Industries GmbH Mandatory Service Bulletins No. MSB-40-060 and No. MSB-F4-016 (single document), dated October 20, 2008.

(3) If, as a result of the inspection required by paragraph (f)(1) of this AD, an adhesive void is found that exceeds the criteria specified in the service information, before further flight, contact Diamond Aircraft Industries at Diamond Aircraft Industries GmbH, N.A. Otto-Straße 5, A-2700 Wiener Neustadt; telephone: +43 2622 26700; fax: +43 2622 26780; email: office@diamond-air.at, for approved repair instructions and accomplish the repair accordingly.

FAA AD Differences

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

Other FAA AD Provisions

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

(1) Alternative Methods of Compliance (AMOCs): The Manager, Standards Office, 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: Sarjapur Nagarajan, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4145; fax: (816) 329-4090. Before using any approved AMOC on any airplane to which the AMOC applies,

notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.

(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

(h) Refer to MCAI European Aviation Safety Agency (EASA) AD No.: 2008-0224, dated December 16, 2008; and Diamond Aircraft Industries GmbH Mandatory Service Bulletins No. MSB-40-060 and No. MSB-F4-016 (single document), dated October 20, 2008, for related information.

Issued in Kansas City, Missouri, on February 6, 2009.

Kim Smith,

Manager, Small Airplane Directorate, Aircraft Certification Service.

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2009-0126; Directorate Identifier 2009-CE-003-AD]

RIN 2120-AA64

Airworthiness Directives; Pilatus Aircraft Ltd. Models PC-12 and PC-12/45 Airplanes

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

This Airworthiness Directive (AD) is prompted by some occurrences where the Deice Pressure Regulator has vented too

much hot air into the forward compartment damaging the oxygen cylinder ON/OFF cable, the Ram-Air Scoop cable and the Environmental Control System (ECS) firewall shut-off valve cable.

If incorrectly adjusted, or defective, the Deice Pressure Regulator can vent hot air into the forward compartment. This situation can cause overheating and failures of components located inside the forward compartment, which could result in potential loss of several functions essential for safe flight.

The proposed AD would require actions that are intended to address the unsafe condition described in the MCAI.

DATES: We must receive comments on this proposed AD by March 16, 2009.

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.

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- **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.

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FOR FURTHER INFORMATION CONTACT:

Doug Rudolph, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64016; telephone: (816) 329-4059; fax: (816) 329-4090.

SUPPLEMENTARY INFORMATION:

Comments Invited

We invite you to send any written relevant data, views, or arguments about this proposed AD. Send your comments to an address listed under the **ADDRESSES** section. Include "Docket No. FAA-2009-0126; Directorate Identifier 2009-CE-003-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

The European Aviation Safety Agency (EASA), which is the Technical Agent for the Member States of the European Community, has issued AD No. 2009-0007, dated January 13, 2009, (referred to after this as "the MCAI"), to correct an unsafe condition for the specified products. The MCAI states:

This Airworthiness Directive (AD) is prompted by some occurrences where the Deice Pressure Regulator has vented too much hot air into the forward compartment damaging the oxygen cylinder ON/OFF cable, the Ram-Air Scoop cable and the Environmental Control System (ECS) firewall shut-off valve cable.

If incorrectly adjusted, or defective, the Deice Pressure Regulator can vent hot air into the forward compartment. This situation can cause overheating and failures of components located inside the forward compartment, which could result in potential loss of several functions essential for safe flight. For the reason described above, this AD mandates the installation of a flange and scoop in the aircraft skin to vent the hot air from the Deice Pressure Regulator overboard.

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

Relevant Service Information

Pilatus Aircraft Ltd. has issued Pilatus PC12 Service Bulletin No. 30-011, dated July 9, 2008. The actions described in this service information are intended to correct the unsafe condition identified in the MCAI.

FAA's Determination and Requirements of the Proposed AD

This product has been approved by the aviation authority of another country, and is approved for operation in the United States. Pursuant to our bilateral agreement with this State of Design Authority, they have notified us of the unsafe condition described in the MCAI and service information referenced above. We are proposing this AD because we evaluated all information and determined the unsafe condition exists and is likely to exist or develop on other products of the same type design.