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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. 2003-NE-25-AD; Amendment 39-13775; AD 2004-17-03]

RIN 2120-AA64

Airworthiness Directives; Pratt & Whitney Canada PW206A and PW206E Turboshaft Engines

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: The FAA is superseding an existing airworthiness directive (AD) for Pratt & Whitney Canada (PWC) PW206A and PW206E turboshaft engines. That AD currently requires:

- Initial and repetitive borescope inspections of compressor turbine and power turbine blades for blade axial shift.
- Replacement of blade retaining rivets and certain rotor air seals as terminating action for the repetitive borescope inspections.

This ad requires the same actions as AD 2003-NE-25-AD but the extent of engine disassembly that triggers the required part replacements needs clarification. This AD results from reports of engine shutdowns and emergency landings due to severe vibration, resulting in exhaust gases escaping from the engine-to-exhaust nozzle interface, thereby triggering in-flight engine fire warnings. We are issuing this AD to prevent turbine blade axial shift, which could cause high levels of vibration, loss of engine torque, in-flight engine shutdown, and loss of the airframe exhaust duct.

DATES: This AD becomes effective September 24, 2004. The Director of the Federal Register approved the incorporation by reference of certain

publications listed in the regulations as of August 29, 2003. The incorporation by reference of certain other publications, as listed in the regulations, was approved previously by the Director of the Federal Register as of August 29, 2003 (68 FR 48544; August 14, 2003).

ADDRESSES: You can get the service information identified in this AD from Pratt & Whitney Canada, 1000 Marie-Victorin, Longueuil, Quebec, Canada J4G 1A1.

You may examine the AD docket at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA. You may examine the service information, at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA; or 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.

FOR FURTHER INFORMATION CONTACT: Ian Dargin, Aerospace Engineer, Engine Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803-5299; telephone (781) 238-7178; fax (781) 238-7199.

SUPPLEMENTARY INFORMATION: The FAA proposed to amend 14 CFR Part 39 with a proposed AD. The proposed AD applies to PWC PW206A and PW206E turboshaft engines. We published the proposed AD in the **Federal Register** on February 20, 2004 (69 FR 7878). That action proposed to require the same actions as AD 2003-16-10, Amendment 39-13263, but would change the description of the extent of engine disassembly that triggers the required part replacements. Those changes are needed to clarify when the parts must be replaced.

Examining the AD Docket

You may examine the AD Docket (including any comments and service information), by appointment, between 8 a.m. and 4:30 p.m., Monday through Friday, except Federal holidays. See **ADDRESSES** for the location.

Comments

We provided the public the opportunity to participate in the

development of this AD. We have considered the comments received.

Request To Limit the Effectivity of This AD

One commenter states that the referenced Alert Service Bulletin and Service Bulletins only address those engines with between 25 hours Total-Time-Since-New (TTSN) or Total-Time-Since-Repair (TTSR) and 600 hours TTSN or TTSR. Therefore, this AD should address the same group of engines.

We do not agree. The amount of data available is insufficient to limit the effectivity to only those engines with between 25 hours TTSN or TTSR and 600 hours TTSN or TTSR. We have not changed the AD based on this comment.

Request for Earlier Versions of Service Bulletins To Apply

One commenter states that earlier versions of the Service Bulletins should be acceptable for meeting the requirements of this AD.

We agree. There are no substantial changes between the earliest versions of the Service Bulletins and those versions referenced in the proposed AD. We have added those service bulletin references to paragraph (k) of the AD, which is the Previous Credit paragraph.

Conclusion

We have carefully reviewed the available data, including the comments received, and determined that air safety and the public interest require adopting the AD with the change described previously. We have determined that this change will neither increase the economic burden on any operator nor increase the scope of the AD.

Costs of Compliance

There are about 130 PWC PW206A and PW206E turboshaft engines of the affected design in the worldwide fleet. We estimate that 15 engines installed on airplanes of U.S. registry are affected by this AD. We also estimate that it will take about 0.5 work hours per engine to perform the required actions, and that the average labor rate is \$65 per work hour. Required parts will cost about \$9,077 per engine. Based on these figures, we estimate the total cost of this AD to U.S. operators to be \$136,656. The manufacturer has stated that it may provide replacement parts at no cost to operators.

Regulatory Findings

We have 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 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); 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 summary of the costs to comply with this AD and placed it in the AD Docket. You may get a copy of this summary by sending a request to us at the address listed under **ADDRESSES**. Include "AD Docket No. 2003-NE-25-AD" in your request.

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 Federal Aviation Administration (FAA) amends § 39.13 by removing Amendment 39-13263 (68 FR 48544, August 14, 2003) and by adding a new airworthiness directive (AD), Amendment 39-13775, to read as follows:

2004-17-03 Pratt & Whitney Canada:
Amendment 39-13775. Docket No. 2003-NE-25-AD. Supersedes AD 2003-16-10, Amendment 39-13263.

Effective Date

(a) This AD becomes effective September 24, 2004.

Affected ADs

(b) This AD supersedes AD 2003-16-10, Amendment 39-13263.

Applicability

(c) This AD applies to Pratt & Whitney Canada (PWC) PW206A and PW206E turboshaft engines. These engines are installed on, but not limited to, MD Helicopters, Inc. Model MD-900 helicopters.

Unsafe Condition

(d) This AD is prompted by reports of engine shutdowns and emergency landings due to severe vibration, resulting in exhaust gases escaping from the engine-to-exhaust nozzle interface, thereby triggering in-flight engine fire warnings. The actions specified in this AD are intended to prevent turbine blade axial shift, which could cause high levels of vibration, loss of engine torque, in-flight engine shutdown, and loss of the airframe exhaust duct.

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.

Initial Sequence of Borescope Inspections

(f) Perform an initial sequence of borescope inspections of compressor turbine blades and power turbine blades for blade axial shift within the turbine disks. Use paragraph 3. of Accomplishment Instructions of PWC Alert Service Bulletin (ASB) No. PW200-72-A28242, Revision 1, dated October 2, 2002, for the borescope inspection and determination of blade shift. Do the inspections at the following times:

- (1) Within 25 flight hours accumulated, or 30 days after the effective date of this AD, whichever occurs earlier.
- (2) After 30 flight hours, but before 50 flight hours accumulated since inspection of paragraph (f)(1) of this AD.
- (3) After 80 flight hours, but before 100 flight hours accumulated since inspection of paragraph (f)(1) of this AD.
- (4) After 180 flight hours, but before 200 flight hours accumulated since inspection of paragraph (f)(1) of this AD.

Repetitive Borescope Inspections

(g) Thereafter, perform repetitive borescope inspections at intervals of not less than 280 nor more than 300 flight hours since-last-inspection. Use paragraph 3. of Accomplishment Instructions of PWC ASB No. PW200-72-A28242, Revision 1, dated October 2, 2002, for the borescope inspections and determination of blade shift.

Disposition

(h) If you find any blade shift, remove engine from service before further flight and perform rivet and rotor air seal replacements, as specified in paragraphs (i)(1) through (i)(3) of this AD, to return the engine to service.

Terminating Action

(i) At the next engine shop visit when access is available to subassemblies, such as modules, accessories, and components, or at the next engine overhaul, whichever occurs first, but before accumulating 1,800 flight hours from the effective date of this AD or before December 31, 2009, whichever occurs first, do the following:

(1) Replace the compressor turbine blade retaining rivets with new P/N retaining rivets, and the No. 4 bearing rear rotor air seal with the new P/N No. 4 bearing rear rotor air seal. Use paragraph 3., Part A, of Accomplishment Instructions of SB No. PW200-72-28069, Revision 5, dated February 10, 2003.

(2) Replace the No. 3 bearing rotating air seal with the new P/N air seal, and the No. 4 bearing front rotor air seal with the new P/N No. 4 bearing front rotor air seal. Use paragraph 3., Part B, of Accomplishment Instructions of SB No. PW200-72-28069, Revision 5, dated February 10, 2003.

(3) Replace the power turbine blade retaining rivets with new P/N power turbine blade retaining rivets. Use paragraph 3. of Accomplishment Instructions of SB No. PW200-72-28239, Revision 2, dated February 10, 2003.

(j) Completing the actions in paragraphs (i)(1) through (i)(3) of this AD terminates all inspection requirements of this AD.

Previous Credit

(k) Previous credit is allowed:

(1) For performing the initial sequence for borescope inspections in paragraph (f) of this AD, that were done using AD 2003-16-10.

(2) For terminating action in paragraphs (i)(1) through (i)(3) of this AD that was done using the Accomplishment Instructions of one of the following, before the effective date of this AD:

- (i) SB No. PW200-72-28069, dated June 10, 1997
- (ii) SB No. PW200-72-28069, Revision 1, dated September 8, 1997
- (iii) SB No. PW200-72-28069, Revision 2, dated December 18, 1997
- (iv) SB No. PW200-72-28069, Revision 3, dated November 30, 1998
- (v) SB No. PW200-72-28069, Revision 4, dated December 27, 2000
- (vi) SB No. PW200-72-28069, Revision 5, dated February 10, 2003
- (vii) SB No. PW200-72-28239, dated September 5, 2002
- (viii) SB No. PW200-72-28239, Revision 1, dated December 5, 2002
- (ix) SB No. PW200-72-28239, Revision 2, dated February 10, 2003

Alternative Methods of Compliance

(l) The Manager, Engine Certification Office, has the authority to approve alternative methods of compliance for this AD if requested using the procedures found in 14 CFR 39.19.

Material Incorporated by Reference

(m) You must use the Pratt & Whitney Canada Service Bulletins and Alert Service Bulletin listed in Table 1 of this AD to perform the inspections and replacement actions required by this AD. The incorporation by reference of this publication was approved previously by the Director of the Federal Register as of August 29, 2003 (68 FR 48544; August 14, 2003), in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. You can get a copy from Pratt & Whitney Canada, 1000 Marie-Victorin, Longueuil, Quebec, Canada J4G1A1. You can review copies at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive

Park, Burlington, MA; or 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.federalregister.gov/code_of_federal_regulations/ibr_locations.html). Table 1 follows:

TABLE 1.—INCORPORATION BY REFERENCE

Service bulletin	Page number(s)	Revision	Date
PW200-72-A28242, Total Pages—7	All	1	October 2, 2002.
PW200-72-28069, Total Pages—17	All	5	February 10, 2003.
PW200-72-28239, Total Pages—20	All	2	February 10, 2003.

Related Information

(n) Transport Canada issued airworthiness directive CF-2003-06, dated February 4, 2003, which pertains to the subject of this AD, in order to assure the airworthiness of these PWC PW206A and PW206E turboshaft engines in Canada.

Issued in Burlington, Massachusetts, on August 12, 2004.

Ann Mollica,

Acting Manager, Engine and Propeller Directorate, Aircraft Certification Service.

[FR Doc. 04-18998 Filed 8-19-04; 8:45 am]

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. 2004-CE-04-AD; Amendment 39-13774; AD 2004-17-02]

RIN 2120-AA64

Airworthiness Directives; Raytheon Aircraft Company 65, 90, 99, 100, 200, 300, and 1900 Series Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: The FAA adopts a new airworthiness directive (AD) for certain Raytheon Aircraft Company (Raytheon) 65, 90, 99, 100, 200, 300, and 1900 series airplanes. This AD requires you to repetitively inspect the engine controls/cross shaft/pedestal for proper installation and torque, re-torque the cross shaft attach bolt, modify the pedestal, and replace the engine controls cross shaft hardware. Modification of the pedestal and replacement of the engine controls cross shaft hardware is terminating action for the repetitive inspection requirements. This AD is the result of numerous reports of loose bolts on the pedestal attachment of the throttle/prop cross shaft assembly. We are issuing this AD to detect and correct loose bolts not securing the pedestal cross shaft, which could result in limited effectiveness of the control levers. This failure could lead to an aborted takeoff.

DATES: This AD becomes effective on October 4, 2004.

As of October 4, 2004, the Director of the Federal Register approved the incorporation by reference of certain publications listed in the regulation.

ADDRESSES: You may get the service information identified in this AD from Raytheon Aircraft Company, 9709 E. Central, Wichita, Kansas 67201-0085; telephone: (800) 429-5372 or (316) 676-3140.

You may view the AD docket at FAA, Central Region, Office of the Regional Counsel, Attention: Rules Docket No. 2004-CE-04-AD, 901 Locust, Room 506, Kansas City, Missouri 64106. Office hours are 8 a.m. to 4 p.m., Monday through Friday, except Federal holidays. **FOR FURTHER INFORMATION CONTACT:** Jeff Pretz, Aerospace Engineer, Wichita Aircraft Certification Office, FAA, 1801 Airport Road, Wichita, Kansas 67209; telephone: (316) 946-4153; facsimile: (316) 946-4407.

SUPPLEMENTARY INFORMATION:

Discussion

What events have caused this AD? The FAA has received numerous reports of loose bolts not securing the pedestal cross shaft on Raytheon Models B300, C90A, and 1900 series airplanes. Investigation revealed that the bolt securing the pedestal cross shaft can loosen in time and fall out. When the bolt backs out, the cross shaft will flex with throttle or propeller control application. This flexing of the cross shaft limits the effectiveness of the control levers and the operation of the landing gear warning, prop reverse not ready, autofeather, and ground idle micro switches (on models with switches at this location).

The 65, 90, 99, 100, 200, 300, and 1900 Series airplanes all have a similar type design in the area affected by this AD.

What is the potential impact if FAA took no action? This failure could limit the effectiveness of the engine control levers and result in an aborted takeoff due to failure to make takeoff power.

Has FAA taken any action to this point? We issued a proposal to amend

part 39 of the Federal Aviation Regulations (14 CFR part 39) to include an AD that would apply to certain Raytheon 65, 90, 99, 100, 200, 300, and 1900 series airplanes. This proposal was published in the **Federal Register** as a notice of proposed rulemaking (NPRM) on April 26, 2004 (69 FR 22392). The NPRM proposed to require you to repetitively inspect the engine controls/cross shaft/pedestal for proper installation and torque, re-torque the cross shaft attach bolt, modify the pedestal, and replace the engine controls cross shaft hardware.

Comments

Was the public invited to comment? We provided the public the opportunity to participate in developing this AD. The following presents the comment received on the proposal and FAA's response to the comment:

Comment Issue: The AD Is Not Needed

What is the commenter's concern? The commenter is responsible for a large fleet (Models 99, 200, and 1900) of 62 airplanes that are affected by this AD. The fleet has accumulated more than 450,000 flight hours. The commenter states that the company has never experienced the problem in the fleet, and that regular inspection in the subject area and check of the subject bolts for tightness eliminates the problem. Therefore, the AD is not necessary.

What is FAA's response to the concern? The FAA disagrees with the commenter's statement that, since the company has not experienced the problem in the fleet, that an AD is not necessary. The AD action was prompted by several reports of loose bolts not securing the pedestal cross shaft on Raytheon Models B300, C90A, and 1900 series airplanes. After issuance of a manufacturer's safety notice, FAA received more reports of loose bolts. Our decision to issue an AD action is based on reports from the field, the likelihood that the condition is likely to exist or develop on other products of this same type design, and the potential impact to