$FAA-2007-28077; Directorate\ Identifier\ 2007-NE-20-AD.$

Effective Date

(a) This airworthiness directive (AD) becomes effective November 1, 2010.

Affected ADs

(b) This AD revises AD 2009–09–03, Amendment 39–15889.

Applicability

(c) This AD applies to Turboméca S.A. ARRIEL 2B and 2B1 turboshaft engines that don't incorporate modification TU166. These engines are installed on, but not limited to, Eurocopter AS 350 B3 and EC 130 B4 helicopters.

Reason

(d) This AD results from:

Since issuance of AD 2007–0109, Turboméca has released modification TU166 which consists in inserting HP blade dampers between the HP disc and the HP blade platform. Introduction of these dampers has demonstrated to limit axial displacement of the HP blade relative to the disk in case of blade lock rupture or opening, therefore eliminating the need for inspection and replacement.

We are issuing this AD to prevent an uncommanded in-flight engine shutdown which could result in an emergency autorotation landing or an accident.

Actions and Compliance

(e) Unless already done, do the following actions:

Initial Inspection

- (1) Perform an initial high-pressure (HP) turbine borescope inspection according to Turboméca S.A. Mandatory Service Bulletin (MSB) No. 292 72 2825, Version B, dated September 21, 2009, or earlier version as follows:
- (i) For engines with fewer than 500 hours and 450 cycles since new or since the last HP turbine borescope inspection, inspect before reaching 600 hours or 500 cycles whichever occurs first. Replace HP turbine modules with rearward turbine blade displacement greater than 0.5 mm.
- (ii) For the remaining engines, inspect within the next 100 hours. Replace HP turbine modules with rearward turbine blade displacement greater than 0.5 mm.

Repetitive Inspections

- (2) Perform repetitive HP turbine borescope inspections according to Turboméca S.A. MSB No. 292 72 2825, Version B, dated September 21, 2009 or earlier version:
- (i) Within 600 hours or 500 cycles from the previous inspection, whichever occurs first, if the rearward displacement of the turbine blades was less than 0.2 mm. Replace HP turbine modules with rearward turbine blade displacement greater than 0.5 mm.
- (ii) Within 100 hours of the previous inspection if the rearward displacement of the turbine blades was between 0.2 mm and 0.5 mm. Replace HP turbine modules with rearward turbine blade displacement greater than 0.5 mm.

Optional Terminating Action

(f) Incorporating modification TU166 terminates the repetitive inspection requirements of paragraphs (e)(2)(i) and (e)(2)(ii) of this AD.

FAA AD Differences

- (g) For clarification, we restructured the actions and compliance wording of this AD.
- (h) We deleted the Turboméca reporting requirement from the AD.
- (i) Although EASA Airworthiness Directive 2007–0109R1, dated November 9, 2009, applies to the ARRIEL 2B1A engine, this AD does not apply to that model because it has no U.S. type certificate.

Alternative Methods of Compliance (AMOCs)

(j) The Manager, Engine Certification Office, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19.

Related Information

- (k) Refer to EASA Airworthiness Directive 2007–0109R1, dated November 9, 2009, and Turboméca S.A. MSB No. 292 72 2825, Version B, dated September 21, 2009, or earlier version, for related information.
- (l) Contact Richard Woldan, Aerospace Engineer, Engine Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803–5299; telephone (781) 238–7136; fax (781) 238–7199, for more information about this AD.

Material Incorporated by Reference

- (m) You must use Turboméca S.A. Mandatory Service Bulletin No. 292 72 2825, Version B, dated September 21, 2009, to do the actions required by this AD, unless the AD specifies otherwise.
- (1) The Director of the Federal Register previously approved the incorporation by reference of Turboméca S.A. Mandatory Service Bulletin No. 292 72 2825, dated April 5, 2007, on June 1, 2009 (74 FR 18981, April 27, 2009).
- (2) For service information identified in this AD, contact Turboméca, 40220 Tarnos, France; telephone 33 05 59 74 40 00, fax 33 05 59 74 45 15.
- (3) You may review copies at the FAA, New England Region, 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/cfr/ibrlocations.html.

Issued in Burlington, Massachusetts, on September 17, 2010.

Robert J. Ganley,

Acting Manager, Engine and Propeller Directorate, Aircraft Certification Service. [FR Doc. 2010–23833 Filed 9–24–10: 8:45 am]

BILLING CODE 4910-13-P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2009-1100; Directorate Identifier 2009-NE-37-AD; Amendment 39-16441; AD 2010-20-07]

RIN 2120-AA64

Airworthiness Directives; International Aero Engines AG V2500–A1, V2522–A5, V2524–A5, V2525–D5, V2527–A5, V2527E–A5, V2527M–A5, V2528–D5, V2530–A5, and V2533–A5 Turbofan Engines

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: The FAA is adopting a new airworthiness directive (AD) for all International Aero Engines AG (IAE) V2500-A1, V2525-D5 and V2528-D5 turbofan engines and certain serial numbers (S/Ns) of IAE V2522-A5, V2524-A5, V2527-A5, V2527E-A5 V2527M-A5, V2530-A5, and V2533-A5 turbofan engines. For certain S/Ns of V2500-A1, V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530–A5, and V2533–A5 series turbofan engines, this AD requires initial and repetitive on-wing ultrasonic inspections of the high-pressure compressor (HPC) stage 3 to 8 drum for cracks. As mandatory terminating action to the repetitive inspections, this AD requires removal from service of the fully silver plated nuts attaching the HPC stage 3 to 8 drum to the HPC stage 9 to 12 drum, removal of silver residue from the HPC stage 3 to 8 drum, and fluorescent penetrant inspection (FPI) of the stage 3 to 8 drum within a specified time. For all other engines, this AD requires removal from service of the fully silver plated nuts attaching the HPC stage 3 to 8 drum to the HPC stage 9 to 12 drum, removal of silver residue from the HPC stage 3 to 8 drum, and FPI of the HPC stage 3 to 8 drum at the next drum piece-part exposure. This AD results from reports of 39 HPC stage 3 to 8 drums found cracked since March 2009. We are issuing this AD to prevent uncontained failure of the HPC stage 3 to 8 drum, which could result in damage to the airplane.

DATES: This AD becomes effective November 1, 2010. The Director of the Federal Register approved the incorporation by reference of certain publications listed in the regulations as of November 1, 2010.

ADDRESSES: You can get the service information identified in this AD from

International Aero Engines AG, 400 Main Street, East Hartford, CT 06108; telephone: (860) 565–5515; fax: (860) 565–5510.

The Docket Operations office is located at Docket Management Facility, U.S. Department of Transportation, 1200 New Jersey Avenue, SE., West Building Ground Floor, Room W12–140, Washington, DC 20590–0001.

FOR FURTHER INFORMATION CONTACT:

Mark Riley, Aerospace Engineer, Engine Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803; e-mail: mark.riley@faa.gov; telephone (781) 238–7758, fax (781) 238–7199.

SUPPLEMENTARY INFORMATION: The FAA proposed to amend 14 CFR part 39 with a proposed AD. The proposed AD applies to all IAE V2500–A1, V2525–D5 and V2528–D5 turbofan engines and certain S/Ns of IAE V2522–A5, V2524–A5, V2527–A5, V2527E–A5, V2527M–A5, V2530–A5, and V2533–A5 turbofan engines. We published the proposed AD in the Federal Register on February 12, 2010 (75 FR 6860). That action proposed to require:

• For certain S/Ns of IAE V2500–A1, V2522–A5, V2524–A5, V2527–A5, V2527E–A5, V2527M–A5, V2530–A5, and V2533–A5 turbofan engines:

 Initial and repetitive on-wing ultrasonic inspections of HPC stage 3 to 8 drums for cracks; and

- O As mandatory terminating action to the repetitive ultrasonic inspections, within 27 months from the effective date of this AD, removal from service of the fully silver plated nuts attaching the HPC stage 3 to 8 drum to the HPC stage 9 to 12 drum, removal of silver residue from the HPC stage 3 to 8 drums, and FPI of the HPC stage 3 to 8 drums.
- For all other engines, at the next piece-part exposure of the HPC stage 3 to 8 drum, removal from service of the fully silver plated nuts attaching the HPC stage 3 to 8 drum to the HPC stage 9 to 12 drum, removal of silver residue from the HPC stage 3 to 8 drums, and FPI of the HPC stage 3 to 8 drums.

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 this AD, the regulatory evaluation, any comments received, and other information. The street address for the Docket Operations office (telephone (800) 647–5527) is provided in the ADDRESSES section. Comments will be available in the AD docket shortly after receipt.

Comments

We provided the public the opportunity to participate in the development of this AD. We have considered the comments received.

Request To Mandate Inspection of Group B and Group C Engines

One commenter, Airbus, requests that we mandate inspection for the S/N engines identified in Group B and Group C of IAE Service Bulletin (SB) No. V2500–ENG–72–0594, Revision 5, as these engines may have operated in a similar environment as the Group A engines.

We do not agree. Engines identified in Groups B and C have not exhibited cracking similar to that seen in engines listed in Groups A and D. Therefore, it is not appropriate to mandate inspections on Group B or C engines at this time. We did not change the AD.

Claim That Root Cause Is Not Yet Determined

Airbus claims that the proposed AD would mandate the inspection only on engines identified in IAE SB No. V2500–ENG–72–0594 (Groups A and D) and IAE SB No. V2500–ENG–72–0603 (Group A) without determining root cause. To properly identify the suspect population, determining the root cause of the HPC stage 3–8 drum cracking is required.

We do not agree. While we do not yet know the specific root cause of the contamination causing the corrosion cracking of the HPC stage 3–8 drum, we do know that engines specified in IAE SB No. V2500–ENG–72–0594 (Groups A and D) and IAE SB No. V2500–ENG–72–0603 (Group A) may exhibit HPC stage 3–8 drum corrosion cracking. We did not change the AD.

Request To Include a Fleetwide Introduction of a Final Fix

Airbus requests that the proposed AD should include a fleet-wide introduction of the final fix (nuts modification), and in the interim, the ultrasonic inspection, to correct the cause of HPC stage 3–8 drum cracking for the entire V2500 fleet.

We partially agree. Paragraph (f)(4)(i) of this AD requires that all operators of engines requiring these repetitive ultrasonic inspections remove the fully silver plated nuts, P/N AS44862, or equivalent, that attach the HPC stage 3 to 8 drum to the HPC stage 9 to 12 drum, within 27 months after the effective date of the AD. Paragraph (g) of this AD also requires those operators of all other affected engines to remove the fully silver plated nuts at the next piece-part exposure of the HPC stage 3–8 drum after the effective date of the

AD. Ultrasonic inspection(s) per IAE SB No. V2500–ENG–72–0594 (Groups A and D) and IAE SB No. V2500–ENG–72–0603 only affect certain engines and are not required for the entire fleet. We did not change the AD.

Claim That Proposed AD Is Less Restrictive Than IAE SB

Airbus claims that the proposed AD is less restrictive than the IAE service bulletins, and it does not recommend immediate action for V2500—A5 drums above 7,545 cycles-since-new and for V2500—A1 drums above 10,305 cycles-since-new. It therefore does not meet the criteria for maximum allowable individual risk per flight.

We do not agree. All "high cycle" HPC stage 3 to 8 drums in the field that required inspections at reduced thresholds, as referenced in the IAE SBs, have already been inspected. Therefore, an equivalent level of fleet risk is maintained for the AD action, and meets FAA criteria. We did not change the AD.

FAA Should Mandate the Nut Removal for the Complete V2500 Fleet

Airbus states that the proposed AD does not put a compliance date for removal of the fully plated silver nuts for the complete V2500 fleet. Removal of the fully silver plated nuts should be mandated for the complete V2500 fleet.

We agree that the fully silver plated nuts should be removed from service for the entire V2500 fleet. However, all engines do not need to be retrofitted before a specific compliance date. V2500 engines that have been determined to require repetitive ultrasonic inspections are at an elevated risk level, and therefore require removal of the fully silver plated nuts within a specified time period to prevent corrosion and potential failure of the HPC 3-8 drum. The remaining V2500 engines that do not require repetitive ultrasonic inspections have been determined to be at a much lower risk level, and therefore, are only required to have the fully silver plated nuts removed at the next piece part exposure. We did not change the AD.

Request To Reference the Latest Service Bulletins

IAE and Japan Airlines request that we reference the latest revisions of the service bulletins, which are IAE SB No. V2500–ENG–72–0594, Revision 6, IAE SB No. V2500–ENG–72–0603, Revision 2, and V2500–ENG–72–0601, Revision 2, as they have been updated to include additional engine S/Ns and other clarification changes.

We agree. We changed the AD to reference the revised service bulletins.

Request To Correct Typos in the Proposed AD

Two commenters request that we change the following:

Paragraph (f)(4) should be revised from "HPC Stage 8 to 12 drum" to "HPC Stage 3 to 8 drum".

Paragraphs (f)(1), (f)(4)(ii), and (g)(2) should be revised from "using paragraph 3 of the Accomplishment Instructions of" to "using the paragraph 3 Accomplishment Instructions of".

We partially agree. We agree that paragraph (f)(4) should be revised from "HPC Stage 8 to 12 drum" to "HPC Stage 3 to 8 drum," We changed the AD.

We also agree that our reference in paragraphs (f)(1), (f)(4)(ii), and (g)(2) should be revised, but not as recommended. We changed paragraphs (f)(1), (f)(4)(ii), and (g)(2) from "using paragraph 3 of the Accomplishment Instructions of" to "use IAE SB No. V2500–ENG–72–0601, Revision 2, dated April 12, 2010, Accomplishment Instructions, paragraph 3."

Material Incorporated by Reference Section Missing From Proposed AD

One commenter states that paragraphs (f)(1), (f)(4)(ii), and (g)(2) require ultrasonic inspection and cleaning to be performed using the Accomplishment Instructions of specified revisions of IAE SBs V2500–ENG–72–0594, V2500–ENG–603, and V2500–ENG–72–0601. These SBs should be listed in the Material Incorporated by Reference section, which is missing from the NPRM.

We agree. This Final Rule AD includes the Material Incorporated by Reference section, which includes those SRs

Request To Revise the Relevant Service Information

IAE commented to revise the last sentence of the "Relevant Service Information" in the preamble of the AD to change: "* * * 27 months from the effective date of the proposed AD" to "27 months after the effective date of this AD". The commenter states that this could be interpreted incorrectly as 27 months from February 12, 2010 (date of the NPRM).

We do not agree that the compliance date could be misinterpreted. Paragraph (4) of this AD correctly states "27 months after the effective date of this AD." We did not change the AD.

Request To Revise the Mandatory Terminating Action Compliance Time

IAE requests that we revise the mandatory terminating action compliance time of "27 months after the effective date of this AD" to a calendar end date of October 31, 2012, to be consistent with the IAE risk assessment.

We do not agree. Due to the uncertainty of the actual publication date of the AD, revising the mandatory terminating action from 27 months after the effective date of this AD to a calendar date of October 31, 2012, may result in a compliance time that is more restrictive than what was proposed in the NPRM. We did not change the AD.

Request To Revise the Definition of Piece-Part Exposure

IAE requests that we revise the AD to change paragraph (i) of the definition of piece-part exposure for the HPC stage 3 to 8 drum from "removal of the drum from the engine and removal of all blades from the drum" to "separation of the rotating drum hardware from the static cases and removal of all blades from the HPC stage 3 to 8 drum". IAE is concerned that confusion could occur with the current statement.

We do not agree. The current description is accurate. We did not change the AD.

Request To Eliminate the Mandatory Terminating Action

One commenter requests that we revise paragraph (f)(4) of the AD to eliminate the 27-month mandatory terminating action requirement to remove the fully silver plated nuts that attach the HPC stage 3 to 8 drum to the HPC stage 9 to 12 drum. The commenter states that performing repetitive ultrasonic inspections will provide an acceptable level of safety, and that incorporation of the 27-month mandatory terminating action requirement is an unacceptable cost burden to operators.

We do not agree. We have determined that removal of the fully silver plated nuts within 27 months from the effective date of the AD is required to maintain an acceptable level of safety. We did not change the AD.

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 changes described previously. We have determined that these changes will neither increase the economic burden on any operator nor increase the scope of the AD.

Costs of Compliance

We estimate that this AD will affect 848 IAE V2500–A1, V2522–A5, V2524– A5, V2525–D5, V2527–A5, V2527E–A5, V2527M–A5, V2528–D5, V2530–A5, and V2533–A5 turbofan engines

installed on airplanes of U.S. registry. We estimate that 29 of these engines will require ultrasonic inspections, and that it will take about 3 work-hours per engine to perform one ultrasonic inspection. We estimate that it will take about 2 work-hours per engine to perform the FPI of the HPC stage 3 to 8 drum, and that the average labor rate is \$85 per work-hour. We also estimate that removal of silver residue from the engine will cost about \$2,600 per engine. Required parts will cost about \$795 per engine. Based on these figures, we estimate the total cost of the AD to U.S. operators to be \$3,030,515.

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 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 at the address listed under ADDRESSES.

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 Federal Aviation Administration 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 airworthiness directive:

2010-20-07 International Aero Engines

AG: Amendment 39–16441. Docket No. FAA–2009–1100; Directorate Identifier 2009–NE–37–AD.

Effective Date

(a) This airworthiness directive (AD) becomes effective November 1, 2010.

Affected ADs

(b) None.

Applicability

- (c) This AD applies to:
- (1) All International Aero Engines AG (IAE) V2500–A1 turbofan engines; and
- (2) All IAE V2525–D5 and V2528–D5 turbofan engines; and
- (3) IAE V2522–A5, V2524–A5, V2527–A5, V2527E–A5, V2527M–A5, V2530–A5, and V2533–A5 turbofan engines with serial numbers (S/Ns) up to and including V13181, and with S/Ns from V15000 up to and including V15245.
- (4) These engines are installed on, but not limited to, Airbus A319, A320, and A321, and McDonnell Douglas MD–90 airplanes.

Unsafe Condition

(d) This AD results from reports of 39 highpressure compressor (HPC) stage 3 to 8 drums found cracked since March 2009. We are issuing this AD to prevent uncontained failure of the HPC stage 3 to 8 drum, which could result in damage to the airplane.

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.

Engines Requiring Ultrasonic Inspections of the HPC Stage 3 to 8 Drum

(f) For IAE V2522–A5, V2524–A5, V2527–A5, V2527E–A5, V2527M–A5, V2530–A5, and V2533–A5 turbofan engines with S/Ns in "Group A" or "Group D" in IAE Service Bulletin (SB) No. V2500–ENG–72–0594, Revision 6, dated April 12, 2010, and for V2500–A1 turbofan engines with S/Ns in "Group A" in IAE SB No. V2500–ENG–72–

- 0603, Revision 2, dated March 17, 2010, do the following:
- (1) Perform an initial ultrasonic inspection of the HPC stage 3 to 8 drum using IAE SB No. V2500–ENG–72–0594, Revision 6, dated April 12, 2010, Accomplishment Instructions, paragraph 3, or IAE SB No. V2500–ENG–72–0603, Revision 2, dated March 17, 2010, Accomplishment Instructions, paragraph 3, before accumulating 5,200 cycles-since-new (CSN) or within 500 cycles from the effective date of this AD, whichever occurs later.
- (2) Thereafter, perform repetitive ultrasonic inspections of the HPC stage 3 to 8 drum for cracks within every 500 cycles-since-last-inspection.
- (3) If cracks or crack indications are identified, remove the drum from service before further flight.

Mandatory Terminating Action

- (4) As mandatory terminating action to the repetitive inspections required by this AD, at the next engine shop visit, but no later than 27 months after the effective date of this AD, do the following before returning any HPC stage 3 to 8 drum to service:
- (i) Remove from service fully silver plated nuts, part number (P/N) AS44862 or equivalent, that attach the HPC stage 3 to 8 drum to the HPC stage 9 to 12 drum.
- (ii) Remove the silver residue from the HPC stage 3 to 8 drum using the IAE SB No. V2500–ENG–72–0601, Revision 2, dated April 12, 2010, Accomplishment Instructions, paragraph 3. Drums cleaned before the effective date of this AD using engine manual task 72–41–11–110–001 satisfy this requirement.
- (iii) Fluorescent penetrant inspect (FPI) the HPC stage 3 to 8 drum for cracks, and remove from service any drum found cracked. You can find guidance on performing an FPI of the HPC stage 3 to 8 drum in IAE engine manual task 72–41–11–200–001.
- (iv) Installation of a zero-time HPC stage 3 to 8 drum or a drum that has never operated with fully silver plated nuts, P/N AS44862 or equivalent, that attach the HPC stage 3 to 8 drum to the HPC stage 9 to 12 drum eliminates the need for the cleaning and FPI required by paragraphs (f)(4)(ii) and (f)(4)(iii) of this AD.

All Other Engines

- (g) For all other engines, at the next piecepart exposure of the HPC stage 3 to 8 drum after the effective date of this AD, do the following before returning the drum to service:
- (1) Remove from service fully silver plated nuts, P/N AS44862 or equivalent, that attach the HPC stage 3 to 8 drum to the HPC stage 9 to 12 drum.
- (2) Remove the silver residue from the HPC stage 3 to 8 drum using IAE SB No. V2500–ENG–72–0601, Revision 2, dated April 12, 2010, Accomplishment Instructions, paragraph 3. Drums cleaned before the effective date of this AD using engine manual task 72–41–11–110–001 satisfy this requirement.
- (3) FPI the HPC stage 3 to 8 drum for cracks, and remove from service any drum found cracked. You can find guidance on

- performing an FPI of the HPC stage 3 to 8 drum in IAE engine manual task 72–41–11–200–001.
- (4) Installation of a zero-time HPC stage 3 to 8 drum or a drum that has never operated with fully silver plated nuts, P/N AS44862 or equivalent, that attach the HPC stage 3 to 8 drum to the HPC stage 9 to 12 drum eliminates the need for the cleaning and FPI required by paragraphs (g)(2) and (g)(3) of this AD.

Definitions

- (h) For the purpose of this AD, an engine shop visit is the induction of an engine into the shop for maintenance involving the separation of a pair of major mating engine flanges, except that the separation of engine flanges solely for the purposes of transportation without subsequent engine maintenance is not an engine shop visit.
- (i) For the purpose of this AD, piece-part exposure is removal of the HPC stage 3 to 8 drum from the engine and removal of all blades from the drum.

Previous Credit

- (j) Initial or repetitive ultrasonic inspections of the HPC stage 3 to 8 drum using IAE SB No. V2500–ENG–72–0594, Revision 3, dated August 7, 2009, or Revision 4, dated October 13, 2009, or Revision 5, dated November 23, 2009, before the effective date of this AD, meets the inspection requirements of paragraphs (f)(1) through (f)(3) of this AD.
- (k) Initial or repetitive ultrasonic inspections of the HPC stage 3 to 8 drum using IAE SB No. V2500–ENG–72–0603, Original Issue, dated November 24 2009, or Revision 1, dated December 18, 2009, before the effective date of this AD, meets the inspection requirements of paragraphs (f)(1) through (f)(3) of this AD.

Alternative Methods of Compliance (AMOCS)

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

Related Information

- (m) Contact Mark Riley, Aerospace Engineer, Engine Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803; e-mail: mark.riley@faa.gov; telephone (781) 238–7758, fax (781) 238–7199, for more information about this AD.
- (n) Contact International Aero Engines AG, 400 Main Street, East Hartford, CT 06108; *telephone:* (860) 565–5515; *fax:* (860) 565–5510, for a copy of the service information referenced in this AD.

Material Incorporated by Reference

(o) You must use the service information specified in the following Table 1 to perform the inspections and silver residue removal required by this AD. The Director of the Federal Register approved the incorporation by reference of the documents listed in the following Table 1 in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Contact International Aero Engines AG, 400 Main Street, East Hartford, CT 06108; telephone:

(860) 565–5515; fax: (860) 565–5510, for a copy of this service information. You may review copies at the FAA, New England Region, 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/cfr/ibr-locations.html.

TABLE 1—INCORPORATION BY REFERENCE

International Aero Engines Service Bulletin No.	Page	Revision	Date
V2500-ENG-72-0594	ALL	6	April 12, 2010.
Total Pages: 61. V2500-ENG-72-0601 Total Pages: 9.	ALL	2	April 12, 2010.
V2500–ENG–72–0603	ALL	2	March 17, 2010.

Issued in Burlington, Massachusetts, on September 15, 2010.

Robert J. Ganley,

Acting Manager, Engine and Propeller Directorate, Aircraft Certification Service. [FR Doc. 2010–23832 Filed 9–24–10; 8:45 am]

BILLING CODE 4910-13-P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2010-0439; Directorate Identifier 2010-NM-029-AD; Amendment 39-16437; AD 2010-20-03]

RIN 2120-AA64

Airworthiness Directives; Bombardier, Inc. Model CL-600-2B16 (CL-604 Variants (Including CL-605 Marketing Variant)) Airplanes

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

ACTION: Final rule.

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:

Following five reported cases of * * * balance washer screw failure on similar ADGs [air-driven generators]/ram air turbines installed on other aircraft types, investigation by Hamilton Sundstrand determined that a specific batch of the screws had a metallographic non-conformity that increased their susceptibility to brittle fracture. * * *

Failure of a balance washer screw can result in loss of the related balance washer, with consequent turbine imbalance. Such imbalance could potentially result in ADG structural failure (including blade failure), loss of ADG electrical power and structural

damage to the aircraft and, if deployment was activated by a dual engine shutdown, could also result in loss of hydraulic power for the flight controls [and consequent reduced ability of the flightcrew to maintain the safe flight and landing of the airplane].

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

DATES: This AD becomes effective November 1, 2010.

The Director of the Federal Register approved the incorporation by reference of certain publications listed in this AD as of November 1, 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:

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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 June 2, 2010 (75 FR 30740). That NPRM proposed to correct an unsafe condition for the specified products. The MCAI states:

Following five reported cases of * * *
balance washer screw failure on similar
ADGs [air-driven generators]/ram air turbines
installed on other aircraft types, investigation
by Hamilton Sundstrand determined that a
specific batch of the screws had a
metallographic non-conformity that
increased their susceptibility to brittle
fracture. Subsequently, it was established

that 152 "dry" ADGs [Hamilton Sundstrand Part Numbers (P/Ns) in the 761339 series and 1711405; see Notel either had nonconforming screws installed during production or possibly during maintenance or repair at Hamilton Sundstrand repair stations.

Failure of a balance washer screw can result in loss of the related balance washer, with consequent turbine imbalance. Such imbalance could potentially result in ADG structural failure (including blade failure), loss of ADG electrical power and structural damage to the aircraft and, if deployment was activated by a dual engine shutdown, could also result in loss of hydraulic power for the flight controls [and consequent reduced ability of the flightcrew to maintain the safe flight and landing of the airplane].

This [Canadian] directive mandates checking of the ADG and replacing the balance washer screws, if required. It also prohibits future installation of unmodified ADGs.

Note: ADGs with Hamilton Sundstrand P/Ns in the 761339 series and 1711405 are installed on the aircraft model listed in the Applicability section above in addition to Bombardier Inc. Models CL–600–2B19, CL–600–2C10 and CL–600–2D24. The latter three models are covered in a separate directive.

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.