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Vi L. Lipski,

*Manager, Transport Airplane Directorate,
Aircraft Certification Service.*

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. 2001-NE-06-AD; Amendment 39-13036; AD 2003-03-12]

RIN 2120-AA64

Airworthiness Directives; Turbomeca S.A. Arriel 1 A2, 1 C, 1 C1, 1 C2, 1 D, 1 D1, 1 E2, 1 K, 1 K1, 1 S, 1 S1 and Arriel 2 B, 2 B1, 2 C, 2 C1, 2 S1 Series Turboshaft Engines

AGENCY: Federal Aviation Administration, DOT.

ACTION: Final rule.

SUMMARY: This amendment adopts a new airworthiness directive (AD), that is applicable to Turbomeca S.A. Arriel 1 A2, 1 C, 1 C1, 1 C2, 1 D, 1 D1, 1 E2, 1 K, 1 K1, 1 S, 1 S1 and Arriel 2 B, 2 B1, 2 C, 2 C1, 2 S1 series turboshaft engines. This amendment requires the insertion of a sleeve in the attachment boss of the compressor bleed valve, and bonding the sleeve in the bleed-valve mounting pad. This amendment is prompted by several cases of contained centrifugal compressor impeller blade ruptures that occurred in service. The actions specified by this AD are intended to prevent acoustic excitation of the centrifugal compressor impeller blades resulting in contained compressor impeller blade ruptures and power loss that could lead to an uncommanded in-flight shutdown.

DATES: Effective March 7, 2003. The incorporation by reference of certain publications listed in the regulations is approved by the Director of the Federal Register as of March 7, 2003.

ADDRESSES: The service information referenced in this AD may be obtained from Turbomeca S.A., 64511 Bordes Cedex, France; telephone 33 05 59 64 40 00; fax 33 05 59 64 60 80. This information may be examined, by appointment, at the Federal Aviation Administration (FAA), New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA; or at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC.

FOR FURTHER INFORMATION CONTACT:

Antonio Cancelliere, Aerospace Engineer, Engine Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803-5299; telephone (781) 238-7751; fax (781) 238-7199.

SUPPLEMENTARY INFORMATION:

A proposal to amend part 39 of the Federal Aviation Regulations (14 CFR part 39) to include an AD that is applicable to Turbomeca S.A. Arriel 1 D, 1 D1, 1 S, 1 S1, and -2B series turboshaft engines was published in the **Federal Register** on September 6, 2001 (66 FR 46562).

That proposal was revised by a supplemental notice of proposed rulemaking (SNPRM) to amend part 39 of the Federal Aviation Regulations (14 CFR part 39) to include an AD that expanded the applicability to Turbomeca S.A. Arriel 1 A2, 1 C, 1 C1, 1 C2, 1 D, 1 D1, 1 E2, 1 K, 1 K1, 1 S, 1 S1 and Arriel 2 B, 2 B1, 2 C, 2 C1, 2 S1 series turboshaft engines. That SNPRM was published in the **Federal Register** on September 20, 2002 (67 FR 59217). That action proposed to require the insertion of a sleeve in the attachment boss of the compressor bleed valve, and bonding the sleeve in the bleed-valve mounting pad, in accordance with Turbomeca S.A. Mandatory Service Bulletin (MSB) No. 292 72 2054, dated September 20, 1999; MSB No. 292 72 0261, dated September 20, 1999; MSB No. 292 72 2070, Update No. 1, dated October 5, 2001; and MSB No. 292 72 0275, Update No. 1, dated October 2, 2001. Since the publication of the SNPRM, MSB No. 292 72 0275 has been reissued as Update No. 2, dated April 15, 2002. This MSB expands the engine model applicability of this AD by referencing MSB No. 292 72 0261, dated September 20, 1999, and Service Bulletin (SB) No. 292 72 0262, dated September 28, 1999. Accordingly, a new paragraph (b) has been added to reflect the updated MSB.

Comments

Interested persons have been afforded an opportunity to participate in the making of this amendment. No comments were received on the proposal or the FAA's determination of the cost to the public. The FAA has determined that air safety and the public interest require the adoption of the rule as proposed.

Economic Analysis

There are approximately 1,406 Turbomeca S.A. Arriel 1 and Arriel 2 model turboshaft engines of the affected design in the worldwide fleet. The FAA estimates that 476 engines installed on helicopters of U.S. registry will be

affected by this AD, that it will take approximately 1.0 work hour per engine to perform the required actions, and that the average labor rate is \$60 per work hour. Required parts will cost approximately \$430 per engine. Based on these figures, the total cost of the AD to U.S. operators is estimated to be \$233,240.

Regulatory Analysis

This final rule does not have federalism implications, as defined in Executive Order 13132, because it 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. Accordingly, the FAA has not consulted with state authorities prior to publication of this final rule.

For the reasons discussed above, I certify that this action (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. A final evaluation has been prepared for this action and it is contained in the Rules Docket. A copy of it may be obtained by contacting the Rules Docket at the location provided under the caption **ADDRESSES**.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

Adoption of the Amendment

Accordingly, pursuant to the authority delegated to me by the Administrator, the Federal Aviation Administration amends part 39 of the Federal Aviation Regulations (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. Section 39.13 is amended by adding a new airworthiness directive to read as follows:

2003-03-12 Turbomeca S.A.: Amendment 39-13036. Docket No. 2001-NE-06-AD.

Applicability: This airworthiness directive (AD) is applicable to Turbomeca S.A. Arriel