
AIRWORTHINESS DIRECTIVE

For the reasons set out in the background section, the CASA delegate whose signature appears below issues the following Airworthiness Directive (AD) under subregulation 39.001(1) of CASR 1998. The AD requires that the action set out in the requirement section (being action that the delegate considers necessary to correct the unsafe condition) be taken in relation to the aircraft or aeronautical product mentioned in the applicability section: (a) in the circumstances mentioned in the requirement section; and (b) in accordance with the instructions set out in the requirement section; and (c) at the time mentioned in the compliance section.

Auxiliary Power Units**AD/APU/23****Saphir 2 Exhaust Thermal Insulation****7/2009**

Applicability: Microturbo SA Saphir 2 Model 016 Auxiliary Power Units (APUs) on which the exhaust thermal insulation has been replaced since 1 January 1995.

Note 1: These APUs are known to be installed on, but are not limited to, Dassault Falcon 20 aeroplanes.

- Requirement:**
1. Inspect the exhaust thermal insulation for signs of deterioration.
 2. Repeat the inspection detailed in Requirement 1 of this AD.
 3. If deterioration is detected, replace the exhaust thermal insulation in accordance with the accomplishment instructions in Microturbo Alert Service Bulletin 49-11A76 Revision 1, dated 6 September 2007.
 4. Replace the exhaust thermal insulation in accordance with the accomplishment instructions in Microturbo Alert Service Bulletin 49-11A76 Revision 1.

The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.

Note 2: EASA AD 2009-0100 dated 4 May 2009 refers.

Compliance: For Requirement 1 - Within 10 APU operating hours from the effective date of this AD.

For Requirement 2 - At intervals not exceeding 10 APU operating hours.

For Requirement 3 - Before operating the APU again.

For Requirement 4 - Within 50 APU operating hours from the effective date of this AD.

This Airworthiness Directive becomes effective on 2 July 2009.

Background: Due to a lapse in manufacturing quality control, the exhaust thermal insulation of certain Microturbo SA Saphir 2 Model 016 APUs may not meet the approved design standard, and may fail in service. The affected part numbers are 016-33-01 (Inner Thermal Insulation), 016-33-02 (Outer Thermal Insulation) and 016-33-03 (EGT Sensor Thermal Insulation). Only parts replaced since 1995 are affected.

Auxiliary Power Units

AD/APU/23 (continued)

This condition, if not corrected, could result in rapid deterioration and physical breakdown of the exhaust thermal insulation, leading to loss of insulation efficiency and ultimately exposure of the hot APU exhaust section and risk of fire.

A handwritten signature in black ink, appearing to read 'James Coyne', with a stylized flourish at the end.

James Coyne
Delegate of the Civil Aviation Safety Authority

22 May 2009