
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.

AlliedSignal (Garrett/AiResearch) Turbine Engines - TFE731 Series**AD/TFE 731/36****Interstage Turbine Transition Duct****13/2008**

Applicability: Honeywell International Inc. TFE731-4, -4R, -5, -5AR, -5BR, and -5R series turbofan engines, with interstage turbine transition (ITT) duct, part number (P/N) 3075292-1, 3075292-3, 3074766-1, 3077063-1, 3075655-1, 3075655-2, 3075699-1, or 3075699-3, installed.

Note 1: These engines are installed on, but not limited to, Avions Marcel Dassault Mystere-Falcon 50 series, Dassault-Aviation 20, 50, 900, MF900 series, Cessna Model 650, Cessna Citation VII, and Raytheon Corporate Jets (formerly British Aerospace) Hawker 800 and 850XP series aeroplanes.

Requirement:

1. Replace the affected ITT ducts listed by part number in the applicability section of this AD, with a serviceable and redesigned ITT duct.
2. Do not install any ITT duct listed by P/N in paragraph (c) of this AD, onto any engine.

Definitions

For the purpose of this AD, a serviceable and redesigned ITT duct is one not having a part number listed in this AD.

For the purpose of this AD, next access of the ITT duct is when the ITT duct is removed from the engine.

Related Information

Honeywell International Inc. Service Bulletin (SB) No. TFE731-72-3727, dated 12 September 2007, and SB No. TFE731-72-3728, dated 12 September 2007, pertain to the subject of this AD.

Note 2: FAA AD 2008-19-12 Amdt 39-15679 dated 12 September 2008 refers.

Compliance: For Requirement 1 - At the next Major Periodic Inspection of the engine or at next access of the ITT duct, whichever occurs first, but not to exceed 2,600 hours time-in-service after the effective date of this AD, unless the actions have already been done.

For Requirement 2 - After the effective date of this AD.

AlliedSignal (Garrett/AiResearch) Turbine Engines - TFE731 Series

AD/TFE 731/36 (continued)

This Airworthiness Directive becomes effective on 18 December 2008.

Background: This AD results from reports of 49 low-pressure turbine (LPT) blade separation events. Six of those events resulted in circumferential failure of the LPT2 or LPT3 nozzle assembly, leading to deformation of the ITT duct and uncontainment of the turbine blades and fragments of the LPT nozzle assembly. The issuing of this AD is intended to prevent uncontainment of turbine blades and fragments of the LPT nozzle assembly, which could result in damage to the aeroplane.



James Coyne
Delegate of the Civil Aviation Safety Authority

6 November 2008