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**AIRWORTHINESS DIRECTIVE**

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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.

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**AlliedSignal (Garrett/AiResearch) Turbine Engines - TPE 331 Series****AD/TPE 331/64****First Stage Turbine Disc****11/2009  
DM**

**Applicability:** Honeywell International Inc. TPE331-10 and TPE331-11 series turboprop engines with a first stage turbine disk, P/N 3101520-1 or 3107079-1, serial number 2-03501-2299, 2-03501-2300, 2-03501-2301, 2-03501-2302, or 2-03501-2304 installed.

*Note 1: These engines are installed on, but not limited to, the following aeroplanes: British Aerospace Jetstream 3201 series, Cessna Aircraft Company Model 441 Conquest, Construcciones Aeronauticas, S.A. (CASA) C-212 series, Dornier Luftfahrt Dornier 228 series, Hawker Beechcraft (formerly Raytheon, formerly Beech) B100, C90 and E90, M7 Aerospace (formerly Fairchild) SA226 and SA227 series (Swearingen Merlin and Metro series), Mitsubishi MU-2B series (MU-2 series), PZL M18 series and Twin Commander 680 and 690 series (Jetprop Commander).*

**Requirement:**

1. Remove from service first stage turbine disks, P/N 3101520-1 and P/N 3107079-1, serial numbers 2-03501-2299, 2-03501-2300, 2-03501-2301, 2-03501-2302, and 2-03501-2304.
2. Do not install first stage turbine disks, P/N 3101520-1 and P/N 3107079-1, serial numbers 2-03501-2299, 2-03501-2300, 2-03501-2301, 2-03501-2302, and 2-03501-2304, into any engine.

*Note 2: FAA AD 2009-17-05 Amdt 39-15996 dated 11 August 2009 refers.*

**Compliance:** For Requirement 1 - Within 25 flight hours or 25 cycles-in-service after the effective date of this AD, whichever occurs first.

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

This Airworthiness Directive becomes effective on 1 September 2009.

**AlliedSignal (Garrett/AiResearch) Turbine Engines - TPE 331 Series**

AD/TPE 331/64 (continued)

Background: This AD results from a report of an uncontained failure of a first stage turbine disk that had a metallurgical defect. This AD is intended to prevent uncontained failure of the first stage turbine disk and damage to the aeroplane.

A handwritten signature in black ink, appearing to read 'James Coyne'.

James Coyne  
Delegate of the Civil Aviation Safety Authority

18 August 2009