AIRWORTHINESS DIRECTIVE

On the effective date specified below, and for the reasons set out in the background section, the CASA delegate whose signature appears below revokes Airworthiness Directive (AD) AD/TAY/12 Amdt 2 and issues the following 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.

Rolls Royce Turbine Engines - Tay Series

AD/TAY/12 Low Pressure Compressor Ice Impact Panels 5/2005
Amdt 3

Applicability:
Rolls Royce Turbine Engines - Tay Series
AD/TAY/12
Amdt 3

Applicability: Tay 611-8, Tay 620-15/20, Tay 620-15, Tay 650-15, Tay 650-15/10 and Tay 651-54 engines that have at least one Low Pressure (LP) compressor case ice impact panel of Service Bulletin (SB) TAY-72-1326 standard installed.

Note 1: LP compressor case ice impact panel of SB TAY-72-1326 standard may have been introduced at new production or by SB TAY-72-1326 or by Repair Schemes HRS3491, HRS3615 (Technical Variance TV5451R), HRS3648 or HRS3649.

Requirement: 1. Carry out an initial and repetitive examination of the bonding of the low-pressure compressor ice impact panels in accordance with Rolls Royce SB TAY-72-1638R3 or TAY-72-1639R2 as applicable.

2. Repair or replace all low pressure compressor ice impact panels if any visible movement, rocking motion or reappearing moisture on the LP compressor case ice impact panel have been detected during the examination.

3. Replace all affected low-pressure compressor case ice impact panels in accordance with Rolls Royce SB TAY-72-1638R3 or TAY-72-1639R2 as applicable.


Compliance: For Requirements 1 and 2: As detailed in the referenced service bulletins.

For Requirement 3: For TAY611-8, TAY620-15/20 and TAY620-15 engines remains unchanged as detailed in amendment 2 of this Directive as before 1 March 2005.

For TAY650-15, TAY650-15/10 and TAY651-54 engines before 1 September 2005.

This Amendment becomes effective on 12 May 2005.
Background: An event has occurred on a Tay 620-15/20 powered aircraft where all the Low Pressure (LP) compressor case ice impact panels of Rolls-Royce Service Bulletin TAY-72-1326 standard on both engines were released in flight. The released LP compressor case ice impact panels were caught in front of the fan outlet guide vanes, resulting in bypass duct blockage and significant thrust loss. The actions specified by this Airworthiness Directive are intended to make sure that the bonding of these LP compressor ice impact panels complies with the design intent.

This amendment updates the reference document to the last revision and changes the compliance period for some models of engine for replacement of the ice impact panels.

Amendment 2 updated the reference documents to reflect the latest revision.

The requirements detailed in amendment 1 of this Directive superseded those requirements detailed in AD/TAY/10 Amdt 1 and AD/TAY/11.

Amendment 1 of this Directive became effective on 28 October 2004.

The original issue of this Directive became effective on 2 September 2004.

James Coyne
Delegate of the Civil Aviation Safety Authority

1 April 2005