

EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2009-0244 Date: 09 November 2009 Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.
This AD is issued in accordance with EC 1702/2003, Part 21A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].	
Type Approval Holder's Name : ROLLS-ROYCE PLC	Type/Model designation(s) : RB211-535 Series Engines
TCDS Number : UK-CAA TCDS No. 1044, UK-CAA TCDS No. 1049	
Foreign AD : Not applicable	
Supersedure : None	
ATA 72	Engine – Low Pressure (LP) Turbine Stage 1, 2 and 3 Discs – Inspection
Manufacturer(s):	Rolls-Royce plc
Applicability:	1) Engine models RB211-535E4-37, RB211-535E4-B-37 and RB211-535E4-C-37. These engines are known to be installed, but not limited to Boeing 757 series aircraft. 2) Engine models RB211-535E4-B-75. These engines are known to be installed, but not limited to Tupolev Tu204 series aircraft.
Reason:	There have been several findings of cracking at the firtrees of LP Turbine discs. Fatigue crack initiation and subsequent crack propagation at the firtree may result in multiple LP Turbine blade release. The latter may potentially be beyond the containment capabilities of the engine casings. Thus, cracking at the firtrees of LP Turbine discs constitutes a potentially unsafe condition. Therefore this Airworthiness Directive requires a change to the inspection intervals of LP Turbine Discs.
Effective Date:	23 November 2009
Required Action(s) and Compliance Time(s):	<u>1) Initial Inspection Requirements</u> 1.1) If at the effective date of this AD the engine is at Refurbishment (Level 3) shop visit or Overhaul (Level 4) shop visit and the LP Turbine Stage 1 Disc is exposed and rebuild has not started yet, carry out the actions defined

	in Section 3. Accomplishment Instructions, subsection C. of Rolls-Royce Non-Modification Service Bulletin (NMSB) No. 72-AG272, Initial Issue. 1.2) If, at the effective date of this AD the engine is at Refurbishment (Level 3) shop visit or Overhaul (Level 4) shop visit and the LP Turbine Stage 2 Disc is exposed, carry out the actions defined in Section 3. Accomplishment Instructions, subsection D. of Rolls-Royce Non-Modification Service Bulletin (NMSB) No. 72-AG272, Initial Issue. 1.3) If, at the effective date of this AD, the engine is at Refurbishment (Level 3) shop visit or Overhaul (Level 4) shop visit and the LP Turbine Stage 3 Disc is exposed, carry out the actions defined in Section 3. Accomplishment Instructions, subsection E. of Rolls-Royce Non-Modification Service Bulletin (NMSB) No. 72-AG272, Initial Issue. 1.4) If, at the effective date of this AD, the engine is in the shop and rebuild has proceeded to a point where some or all of the inspections required by 1.1), 1.2) or 1.3) cannot be accomplished, or if the engine is not in the shop, complete the inspections by carrying out the applicable actions defined in Section 3, Accomplishment Instructions, of Rolls-Royce Non-Modification Service Bulletin (NMSB) No. 72-AG272, Initial Issue, at -the next engine refurbishment shop visit - or -at the next Module 41 (04) Level 3 (refurbishment) shop visit - or -at the next Module 51 (05) Level 3 (refurbishment) shop visit - or -at the next Level 4 (overhaul) shop visit, whichever occurs first. <u>2.) Repeat Inspection Requirements</u> Carry out the inspections defined in Section 3. Accomplishment Instructions of Rolls-Royce NMSB No. 72-AG272, Initial Issue at -every engine refurbishment shop visit - and -every Module 41 (04) Level 3 (refurbishment) - and -every Module 51 (05) Level 3 (refurbishment) - and -every Level 4 (overhaul) shop visit, if the engine has accumulated more than 1500 cycles since the last inspection of the LP Turbine stage 1, 2 or 3 Discs.
Ref. Publications:	Rolls-Royce RB211 Propulsion System Non Modification Service Bulletin (NMSB) No. 72-AG272, Initial Issue. The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.
Remarks :	1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. This AD was posted on 07 October 2009 as PAD 09-119 for consultation until 04 November 2009. No comments were received during the consultation period. 3. Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail ADs@easa.europa.eu. 4. For any question concerning the technical content of the requirements in this AD, please contact: Rolls-Royce plc., P.O. Box 31, Derby, DE24 8BJ, United Kingdom;

	Telephone: +44 (0) 1332 242424, Fax: +44 (0) 1332 249936; Email: tech.help@rolls-royce.com or download the publication from https://www.aeromanager.com/
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