EASA AD No.: 2014-0249R1

EASA

AIRWORTHINESS DIRECTIVE

AD No.: 2014-0249R1

Date: 18 February 2015

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 EU 748/2012, Part 21.A.3B. In accordance with EU 1321/2014 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 AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [EU 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].

Design Approval ROLLS-ROYCE p		Type/Model designation(s): RB211-535E4 engines			
TCDS Number:	EASA.E.061				
Foreign AD:	Not applicable				
Revision:	This AD revises EASA AD 20	14-0249 dated 19 November 2014.			
ATA 05, 72	Time Limits / Maintena Reduction of Cyclic Li	ince Checks – Engine Critical Parts – fe Limits			
Manufacturer(s):	Rolls-Royce plc (RR)				
Applicability:	Applicability: RB211-535E4-37, RB211-535E4-B-37 and RB211-535E4-C-37 engine manufacturer serial numbers.				
	These engines are known to be installed on, but not limited to, Boeing 757 aeroplanes.				
Reason:	RB211-535E4-37 engine, I high pressure (HP) turbine	analysis, carried out by RR, of the lives of critical parts of the 87 engine, has resulted in reduced cyclic life limits for certain HP) turbine discs. The reduced limits are published in the RR 87 Time Limits Manual (TLM): 05-10-01-800-000, current July 2014.			
	Operation of critical parts beyond these reduced cyclic life limits may result in part failure, possibly resulting in the release of high-energy debris, which may cause damage to the aeroplane and/or injury to the occupants.				
	To address this potential unsafe condition, EASA issued AD 2014-0249 to require implementation of the reduced cyclic life limits for the affected critical parts, i.e. replacement of each part before the applicable reduced life limit is exceeded, and replacement of those critical parts that have already exceeded the reduced cyclic life limits.				
	eligible for installation on M did not explicitly include re	it was determined that the affected discs are not Model RB211-535C-37 engines. In addition, the AD ference to the necessary recalculation of remaining transferred from one engine Model to another.			

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	RB2	11-5350			evised to remove the amend paragraph (3	
	clari	fication.		-		
Effective Date:	Revision 1: 18 February 2015					
	Original issue: 03 December 2014					
Required Action(s)	Required as indicated, unless accomplished previously:					
and Compliance Time(s):	(1) From 03 December 2014 [the effective date of the original issue of this AD], except as specified in paragraphs (2) and (3) of this AD, replace each component with a serviceable part before exceeding the applicable life limit, as specified in RR RB211-535E4-37 TLM 05-10-01-800-000, Revision dated 01 July 2014 (hereafter referred to as 'the TLM'), as applicable to engine Model and configuration.					
	Note 1: For the purpose of this AD, a serviceable part is one having a P/N as listed in the TLM with a total accumulated cyclic life less than the applicable life limit as specified in the TLM.					
	(2)	issue of installed	f this AD], determ	ne the Part Num	the effective date of ober (P/N) of the HP ated flight cycles (FC	turbine disc
	(3) If, as a result of the determination as required by paragraph (2) of this AD, a disc is installed with a P/N as listed in Table 1 of this AD, before the accumulated cyclic life exceeds the applicable life limit specified in Table 1 of this AD, as applicable, or within 25 FC after 03 December 2014 [the effective date of the original issue of this AD], whichever occurs later, replace the affected disc with a serviceable part.					
	For an affected HP turbine disc, installed on a Model RB211-535E4-B-37 or RB211-535E4-C-37 engine, which was previously installed on a Model RB211-535E4-37 engine operated in accordance with flight profile A, task 05-00-01-800-00 of the TLM specifies how the equivalent cycles since new must be re-calculated to determine the applicable life limit as specified in Table 1 of this AD. Table 1 – Affected HP Turbine Discs and associated Cyclic Life Limits					
	P/N Cyclic Life Limit					
			UL27681			
		_	UL39767	Flight Plan A: 19 500 FC	Flight Plan B: 14 700 FC	
	(4)					
	(5)	For an AMP that, on 03 December 2014 [the effective date of the original issue of this AD], is already updated to incorporate the maintenance tasks and life limitations as specified in the RR RB211-535E4-37 TLM 05-10-01-800-000, Revision dated 01 April 2014, the more restrictive limitations, as defined in Table 1 of this AD, must be incorporated into the AMP to comply with paragraph (4) of this AD.				
	(6)	complia AD. Afte	nce with the requer er revising the AM	irements of para IP, as required b	agraph (4) of this AD graphs (1), (2) and (y paragraph (4) or (5 omplishment of indiv	3) of this 5) of this AD,

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	is recorded for demonstration of AD compliance on a continued basis.				
	Note 2: For affected engines installed on aeroplanes registered in Europe, complying with the approved AMP as specified in paragraph (3) of this AD is required by Commission Regulation (EU) No 1321/2014 , Part M.A.301, paragraph 3.				
Ref. Publications:	RR RB211-535E4-37 TLM 05-10-01-800-000, Revision dated 01 July 2014.				
	The use of later approved variations or revisions of this document is acceptable for compliance with the requirements of this AD.				
Remarks:	If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.				
	 The original issue of this AD was posted on 20 October 2014 as PAD 14- 152 for consultation until 17 November 2014. No comments were received during the consultation period. 				
	 Enquiries regarding this AD should be referred to the Safety Information Section, Certification Directorate, EASA. E-mail: ADS@easa.europa.eu. 				
	 For any question concerning the technical content of the requirements in this AD, please contact your designated Rolls-Royce representative, or download the publication from your Aeromanager account at www.aeromanager.com. 				
	If you do not have a designated representative or Aeromanager account, please contact Corporate Communications at Rolls-Royce plc., P.O. Box 31, Derby, DE24 8BJ, United Kingdom, Telephone: +44 (0) 1332 242424, or				
	send an e-mail through http://www.rolls-royce.com/contact/civil_team.jsp identifying the correspondence as being related to airworthiness directives.				