EASA	AIRWORTHINESS DIRECTIVE		
X	AD No : 2007-0206		
×,	Date: 06 August 2007		
No person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive unless otherwise agreed with the Authority of the State of Registry.			
Type Approval Holder's Name :		Type/Model designation(s) :	
ROLLS-ROYCE PLC		RB211 TRENT 768-60, 772-60, 772B-60	
TCDS Number: U	K CAA 1050		
Foreign AD: Not a	pplicable		
Supersedure: UK	CAA AD G-2004-0010, EA	ASA Approval No 2004-3674	
ATA 72	Engine – HP Compressor – Test/Modification		
Manufacturer(s):	ROLLS-ROYCE PLC		
Applicability:	Models RB211 Trent 768-60, 772-60 and 772B-60 engines.		
	These engines are known to be installed, but not limited to Airbus A330 aeroplanes.		
Reason:	Reason: There have been a number of low power surges in service on Trent 700 engine These surges occurred with the aeroplane on the ground as take-off power w being set or during taxi. The cause of the surges has been identified as excessi wear on the HPC casing front location feature. This causes increased HPC clearances resulting in loss of surge margin. Engines affected by this problem a also at risk of failure to respond due to surge on acceleration during descent, pr to flap selection.		
	Routine ground testing for adequate surge margin will assure safe in-flight operation and embodiment of there designed HPC casing front location feature will remove the problem.		
	by extending the Te	WIN CAA AD G-2004-0010, EASA Approval Nr. 2004-3674, erminating Action compliance limit of 4 500 cycles to 6 300 ctive Date of the Airworthiness Directive.	
	at the next HP comp	d to ensure the Terminating Action modification is carried out pressor overhaul. The limit is revised as a result of the agreed compressor drum life from 4 200 to 6 000 cycles.	

	Note: the AD number has been changed because the original AD carried a CAA UK number and this superseding AD is now issued under the EASA AD system.	
Effective Date:	4 December 2003 (the effective date of AD G-2004-0010)	
Compliance:	1) In-Service Test	
	Carry out a surge test in accordance with Rolls-Royce Alert Service Bulletin RB211-71-AD509 revision 3 or later approved revision, Section 3 Accomplishment Instructions before the engine exceeds 2 000 cycles since new or 1 000 cycles since HP Compressor overhaul, and subsequently at intervals of not more than;	
	(a) 130 cycles	
	or	
	(b) 160 cycles if Rolls-Royce Alert Service Bulletin RB211-73-AE224 original issue or later approved revision, or later standard of engine control software is embodied.	
	Note: For the purposes of this Airworthiness Directive, testing carried out in accordance with superseded AD 005-09-2001, AD G-2003-0014, or AD G-2004-0010 (Rolls-Royce Alert Service Bulletin RB211-71-AD509 revision 3, revision 2, revision1 or original issue) is deemed to be valid.	
	2) Interim Action	
	Fit an EEC incorporating a revised standard of engine control software as specified in Rolls-Royce Alert Service Bulletin RB211-73-AE224 original issue or later approved revision, or later standard of engine control software, before 1 July 2005.	
	3) Terminating Action	
	Fit redesigned HP compressor stage 1 casing and intermediate case outer location ring in accordance with Rolls-Royce Service Bulletin RB211-72-D574 original issue or later approved revision, Section 3 Accomplishment Instructions within 6300 cycles of the Effective Date of this Airworthiness Directive or before 30 June 2012 whichever is the sooner. Incorporation of this modification removes the requirement to carry out 1) In-Service Test and 2) Interim Action and therefore constitutes the terminating action for this Airworthiness Directive.	
Ref. Publications:	Rolls-Royce Alert Service Bulletin RB211-71-AD509 revision 3 or later approved issue, Rolls-Royce Alert Service Bulletin RB211-73-AE224 original issue or later approved revision, Rolls-Royce Service Bulletin RB211-72-D574 original issue or later approved revision	
Remarks :	 If requested and appropriately substantiated the responsible EASA manager for the related product has the authority to accept Alternative Methods of Compliance (AMOC) for this AD. 	
	 This AD was posted on 12 July 2007 as PAD 07-120 for consultation until 26 July 2007. No comments were received during this period. 	
	 Enquiries regarding this Airworthiness Directive should be referred to the AD Focal Point - Certification Directorate, EASA. E-mail: <u>ADs@easa.europa.eu</u>. 	
	 For any question concerning the technical content of the requirements in this AD, please contact: Rolls-Royce plc, PO Box 31, Derby, DE24 8BJ, United Kingdom. Phone: +44 (0) 1332242424 Fax: +44 (0) 1332 249936. 	