


EASA	NOTIFICATION OF A PROPOSAL TO ISSUE AN AIRWORTHINESS DIRECTIVE	
	<p>PAD No.: 12-058</p> <p>Date: 04 June 2012</p> <p>Note: This Proposed Airworthiness Directive (PAD) 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.</p>	
<p>In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below. All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation closing date indicated.</p>		
Design Approval Holder's Name :		Type/Model designation(s) :
Rolls-Royce plc		RB211 Trent 800 Engines
TCDS Number:	United Kingdom No. 1051	
Foreign AD:	Not applicable	
Supersedure:	None	
ATA 73	Engine – Intermediate Pressure (IP) Turbine Disc – Identification / Inspection / Replacement	
Manufacturer(s):	Rolls-Royce plc	
Applicability:	<p>RB211 Trent 875-17, 877-17, 884-17, 884B-17, 892-17, 892B-17 and 895-17 engines, all serial numbers.</p> <p>These engines are known to be installed on, but not limited to, Boeing 777 series aeroplanes.</p>	
Reason:	<p>The inspection of several IP turbine discs at past engine overhauls identified the presence of steel inclusions in these parts. Further investigation concluded that all affected parts were manufactured from Waspalloy billets produced before 1997 at a certain supplier who also melted steel in the same furnaces. Initial engineering evaluation concluded that the lives of the parts would not be affected by the presence of the said steel inclusions. This evaluation has been recently repeated, utilising improved structural analysis, and it is now concluded that the currently published lives of the components cannot be supported for some discs with a steel inclusion.</p> <p>This condition, if not corrected, could lead to an uncontained IP turbine disc failure, possibly resulting in damage to, and reduced control of, the aeroplane.</p> <p>For the reasons described above, this AD requires replacement of certain IP turbine discs.</p> <p>This AD also prohibits (re)installation of certain IP turbine discs on an engine.</p>	
Effective Date:	[TBD: 14 days after final AD issue date]	

<p>Required Action(s) and Compliance Time(s):</p>	<p>Required as indicated, unless accomplished previously:</p> <ol style="list-style-type: none"> (1) During the next engine shop visit after the effective date of this AD where the Module 05 is removed from the engine or, in case that, on the effective date of this AD, an engine happens to be in such a shop visit, identify the serial number (s/n) of the IP turbine disc installed on the engine. (2) If a turbine disc is installed with a s/n as listed in Table 1 of this AD, accomplish the following action, as applicable, in accordance with the instructions of Rolls-Royce RB211 Trent 800 Series Propulsion Systems Non-Modification Service Bulletin (NMSB) RB211-72-AG795 (hereafter referred to as the NMSB): <ol style="list-style-type: none"> (2.1) If the IP turbine disc accumulated life exceeds 9 700 engine cycles, before returning the engine to service, replace the IP turbine disc with a serviceable part. (2.2) If the accumulated life of the IP turbine disc is below the 9 700 engine cycles threshold, before the IP turbine disc exceeds that threshold, replace the IP turbine disc with a serviceable part. <p style="text-align: center;">Table 1 – Affected IP Turbine Discs</p> <table border="1" data-bbox="655 786 1305 1317"> <thead> <tr> <th colspan="2">IP turbine disc s/n</th></tr> </thead> <tbody> <tr><td>ADREB 73</td><td>ADREB 88</td></tr> <tr><td>ADREB 79</td><td>ADREB 89</td></tr> <tr><td>ADREB 80</td><td>ADREB 90</td></tr> <tr><td>ADREB 81</td><td>ADREB 91</td></tr> <tr><td>ADREB 82</td><td>ADREB 92</td></tr> <tr><td>ADREB 83</td><td>ADREB 94</td></tr> <tr><td>ADREB 84</td><td>ADREB 96</td></tr> <tr><td>ADREB 85</td><td>ADREB 102</td></tr> <tr><td>ADREB 86</td><td>ADREB 103</td></tr> <tr><td>ADREB 87</td><td>ADREB 104</td></tr> </tbody> </table> <ol style="list-style-type: none"> (3) From the effective date of this AD, do not install on any engine an IP turbine disc with a s/n as listed in Table 1 of this AD, except in accordance with the inspection and replacement requirements of this AD. 	IP turbine disc s/n		ADREB 73	ADREB 88	ADREB 79	ADREB 89	ADREB 80	ADREB 90	ADREB 81	ADREB 91	ADREB 82	ADREB 92	ADREB 83	ADREB 94	ADREB 84	ADREB 96	ADREB 85	ADREB 102	ADREB 86	ADREB 103	ADREB 87	ADREB 104
IP turbine disc s/n																							
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ADREB 84	ADREB 96																						
ADREB 85	ADREB 102																						
ADREB 86	ADREB 103																						
ADREB 87	ADREB 104																						
<p>Ref. Publications:</p>	<p>Rolls-Royce RB211 Trent 800 Series Propulsion Systems NMSB RB211-72-AG795, dated 28 October 2011.</p> <p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p>																						
<p>Remarks :</p>	<ol style="list-style-type: none"> 1. This Proposed AD will be closed for consultation on 02 July 2012. 2. Enquiries regarding this PAD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail ADs@easa.europa.eu 3. For any question concerning the technical content of the requirements in this PAD, please contact your designated Rolls-Royce representative, or download the publication from your Aeromanager account at www.aeromanager.com, or contact at Rolls-Royce plc. Corporate Communications, 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. 																						