EASA

EMERGENCY AIRWORTHINESS DIRECTIVE

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AD No.: 2010-0001-E

Date: 04 January 2010

Note: This Emergency 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 AD applies, except in accordance with the requirements of that AD, 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 :		Type/Model designation(s) :	
BAE Systems (Operations) Ltd		BAe 146 and AVRO 146-RD aeroplanes	
TCDS Number :	EASA.A.182		
Foreign AD :	Not applicable		
Supersedure :	This AD supersedes EASA Emergency AD 2009-0197-E dated 3 September 2009.		
ATA 32	Landing Gear - Nose	Landing Gear – Inspection / Replacement	
Manufacturer(s):	BAE Systems (Operations) Ltd, British Aerospace plc, British Aerospace (Commercial Aircraft) Ltd, British Aerospace (Operations) Ltd, British Aerospace Regional Aircraft Ltd, British Aerospace Regional Aircraft trading as Avro International Aerospace.		
Applica bil ity:	BAe 146 and AVRO 146-RJ aeroplanes, all models, all serial numbers (s/n), if a Nose Landing Gear (NLG) unit with Part Number (P/N) 200876001, P/N 200876002, P/N 200876003, P/N 200876004 or P/N 201138002 is installed, on which Messier-Dowty SB 146-32-150 has not been embodied, or if a Messier-Dowty NLG unit with one of these P/Ns is installed, which has had Messier-Dowty SB 146-32-150 declared as being embodied by Messier Services, Sterling, Virginia, United States of America.		
		NLG unit P/N 201138002 installed having s/n M-DG-	
Reason:	Systems (Operations) Ltd This SB was classified ma AD number 002-06-2000, inspections for cracking o	by a crack found at the top of the NLG oleo, BAE issued Inspection Service Bulletin (SB) 32-158. andatory by the UK Civil Aviation Authority under requiring repetitive non-destructive testing (NDT) n the upper end of the NLG oleo. The AD also inating action for the repetitive inspections, by bowty SB.146-32-150.	
	NLG main fitting showed to accomplished, although the Systems has determined	nt investigation, the examination of a fractured that Messier-Dowty SB.146-32-150 had not been ne records indicated that it had been. BAE that more NLG units could be similarly affected. en overhauled at Messier Services in Sterling,	

		inia, in the United States. This condit 3 failure.	ion, if not corrected, could result in		
	requ are inst	To address this situation, EASA issued Emergency AD 2009-0043-E to require repetitive NDT inspections of each affected NLG unit and, if cracks are found, replacement with a serviceable unit, in accordance with the instructions of BAE Systems (Operations) Limited Alert Inspection Service Bulletin ISB.A32-180 and Messier-Dowty (M-D) SB 146-32-149.			
	redu the 32-´ sup	sequently, investigation and analysis uction of the inspection threshold and affected NLG units and replaced M-D 174. Consequently, BAE Systems SE erseded by BAE Systems Alert ISB.A ndated by EASA Emergency AD 2009	the repetitive inspection interval for SB 146-32-149 with M-D SB 146- 3 32-158 was withdrawn and 32-180 Revision 1, which was		
	the Alei	further information became available l compliance instructions in the ISB an t Service Bulletin ISB.A32-180. The apatible with the instructions in EASA	d have now issued Revision 2 of layout of Revision 2 is no longer		
	of E ND ⁻ repl				
Effective Date:	06 January 2010				
	 Required as indicated, unless accomplished previously: (1) Before next flight after the effective date of this AD, determine whether an affected NLG unit is installed on the aeroplane, as identified in paragraph 1.A.(1) of BAE Systems (Operations) Limited Alert Inspection Service Bulletin ISB.A32.480 Revision 2 (the ISB). At the time indicated in Table 1 of this AD, as applicable, inspect each affected NLG unit in accordance with the instructions of M-D SB 146-32-174. Note: Compliance with the Initial Inspection requirements of EASA AD 2009-0197-E is acceptable to show compliance with the Initial Inspection requirements of this AD. Table 1 				
		NLG serial number (s/n) Applicability	Initial Inspection Compliance Time		
Required Action(s) and Compliance Time(s):		s/n included in list of paragraph 1.D Part 1 of the ISB	Before next flight after the effective date of this AD.		
		s/n included in list of paragraph 1.D Part 2 of the ISB	In accordance with the schedule in Table 2 of the ISB		
		s/n included in list of paragraph 1.D Part 3 of the ISB	In accordance with the schedule in Table 3 of the ISB		
	(2)	Thereafter, at intervals not exceeding 300 cycles, repeat the inspection in accordance with M-D SB 146-32-174			
	(3)	(3) If a crack is found during any inspection in accordance with Messier-Dowty SB 146-32-174, before further flight, replace the NLG with a serviceable unit.			
	(4)	(4) Replacement of an affected NLG unit as required by paragraph (3) of this AD constitutes terminating action for the repetitive inspection requirements of paragraph (2) of this AD if the replacement NLG unit has been modified in accordance with the requirements of Messier-Dowty SB 146-32-150, or if			

	the replacement NLG is a P/N 201138002 unit with s/n M-DG-0169 or higher.		
	(5) Modification of an affected NLG in accordance with M-D SB 146-32-150 constitutes terminating action for the repetitive inspection requirements of paragraph (2) of this AD for that NLG unit.		
	(6) For an affected NLG unit that has had M-D SB 146-32-150 embodied by Messier Services in Sterling, Virginia, USA, verify that the SB has been embodied, in accordance with approved Messier-Dowty instructions. At the time of issuance of this AD, such instructions have not yet been published.		
Ref. Publications:	BAE Systems (Operations) Limited Alert ISB.A32-180 Revision 2, dated 14 October 2009.		
	Messier-Dowty SB 146-32-150 dated 22 May 2000 and Messier-Dowty SB 146-32-149 dated 17 April 2000, which has been replaced with Messier-Dowty SB 146-32-174 dated 26 August 2009.		
	The use of later approved revisions of these documents 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 safety assessment has requested not to implement the full consultation process and an immediate publication and notification.		
	 Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail <u>ADS Reasoneuropa.eu</u>. 		
	 For any questions concerning the technical content of the requirements in this AD, please contact: PAE Systems (Operation) and Customer Information Department. 		
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