


EASA	AIRWORTHINESS DIRECTIVE
	<p>AD No.: 2011-0220</p> <p>Date: 11 November 2011</p> <p>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.</p>
<p>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].</p>	
<p>Type Approval Holder's Name :</p> <p>BAE SYSTEMS (Operations) LTD</p>	<p>Type/Model designation(s) :</p> <p>BAe 146 and AVRO 146-RJ aeroplanes</p>
<p>TCDS Number: EASA.A.182</p>	
<p>Foreign AD: Not applicable</p>	
<p>Supersedure: None</p>	
ATA 29	Hydraulics – Hydraulic Fluid Containment System – Installation
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.
Applicability:	BAe 146 and AVRO 146-RJ series aeroplanes, all models, all serial numbers, except aeroplanes not carrying passengers.
Reason:	<p>Cases of hydraulic pipe ruptures in the centre of the cabin of BAe 146 aeroplanes have been reported, which have resulted in the passengers being contaminated with hydraulic fluid. The results of the investigations have shown that the pipe failures were caused by a combination of seam welded pipes, bends in the pipe runs with small bend radii and fatigue damage due to pressure variations.</p> <p>This condition, if not corrected, could lead to harmful or hazardous concentrations of hydraulic fluid or hydraulic vapour entering the passenger compartment, possibly resulting in injury to the occupants.</p> <p>For the reasons described above, this AD requires the installation of a flexible envelope around the hydraulic pipe group where the failures have occurred to capture and contain any fluid escaping from a burst pipe and channel it below floor level into the forward cargo bay.</p>
Effective Date:	25 November 2011
Required action(s) and Compliance	<p>Required as indicated, unless accomplished previously:</p> <p>(1) Within 4 000 flight cycles or 2 years after the effective date of this AD,</p>

Time(s):	<p>whichever occurs first, install the hydraulic fluid containment system in accordance with the accomplishment instructions of BAE Systems (Operations) Ltd Service Bulletin (SB) 29-048-30676A Revision 2.</p> <p>(2) Installation of the hydraulic fluid containment system before the effective date of this AD in accordance with the accomplishment instructions of BAE Systems (Operations) Ltd SB 29-048-30676A Original issue and/or Revision 1 is acceptable to comply with the requirements of this AD.</p>
Ref. Publications:	<p>BAE Systems (Operations) Limited Modification Service Bulletin SB 29-048-30676A Revision 2 dated 23 December 2010.</p> <p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p>
Remarks :	<ol style="list-style-type: none"> 1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. This AD was posted on 23 September 2011 as PAD 11-101 for consultation until 21 October 2011. The Comment Response Document can be found at http://ad.easa.europa.eu/. 3. Enquiries regarding this AD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail ADs@easa.europa.eu. 4. For any question concerning the technical content of the requirements in this AD, please contact: BAE Systems (Operations) Ltd, Customer Information Department, Prestwick International Airport, Ayrshire, KA9 2RW, Scotland, United Kingdom; Telephone +44 1292 675207, Facsimile +44 1292 675704; E-mail: RApublications@baesystems.com.