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| <b>EASA</b>                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>NOTIFICATION OF A PROPOSAL TO ISSUE AN<br/>AIRWORTHINESS DIRECTIVE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                            | <p><b>PAD No.: 10-109</b></p> <p><b>Date: 11 October 2010</b></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> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Type Approval Holder's Name :</b><br><br>AIRBUS                                                                                                                                                                                                                                                                                                                                                                          | <b>Type/Model designation(s) :</b><br><br>A340-600 series aeroplanes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| TCDS Number : EASA.A.015                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Foreign AD : Not applicable                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Supersedure : None                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ATA 26</b>                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Fire Protection – Fire Extinguishing System – Modification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Manufacturer(s):                                                                                                                                                                                                                                                                                                                                                                                                            | Airbus (formerly Airbus Industrie)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Applicability:                                                                                                                                                                                                                                                                                                                                                                                                              | Airbus A340 aeroplanes, models -642 and -643, all manufacturer serial numbers, on which Airbus modification (mod.) 47090 has been embodied in production, and except those on which Airbus mod. 51065 has been embodied in production.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Reason:                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>During the qualification test campaign of the prototype Flow Metering Compact Unit (FMCU) Part Number (P/N) QA07907-03, partial blockage of the water absorbing filter element P/N QA06123 was observed several times. The blockage was created by carbon debris from the cartridge and from the burst disc of the Halon bottle.</p> <p>This water absorbing filter element is part of the FMCU, which are part of the Lower Deck Cargo Compartment (LDCC) fire extinguisher system used in some A340-600 aeroplanes.</p> <p>Blockage of the water absorbing filter element could lead to reduction of the Halon outflow, leading to incapacity to maintain fire extinguishing agent concentration. Combined with fire, this condition could result in an uncontrolled fire in the affected compartment, which would constitute an unsafe condition.</p> <p>To avoid water absorbing filter element blockage, this AD requires to convert the fire extinguishing system from the three-bottles-system with 4 FMCU into a two-bottles-system with 2 Flow Metering Systems (FMS) equipped with upgraded water absorbing filter elements.</p> |

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| Effective Date:                            | 14 days after final AD issue date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Required action(s) and Compliance Time(s): | <p>Required as indicated, unless already accomplished:</p> <p>Within 18 months after the effective date of this AD, modify the fire extinguishing system, from a three bottles solution with 4 FMCU into a two bottles solution with 2 FMS equipped with upgraded water absorbing filter elements, in accordance with the instructions of Airbus Service Bulletin (SB) A340-26-5020.</p>                                                                                                                                                                                                                                                                                                     |
| Ref. Publications:                         | <p>Airbus Service Bulletin A340-26-5020 at Original issue.</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"> <li>1. This Proposed AD will be closed for consultation on 08 November 2010.</li> <li>2. Enquiries regarding this PAD should be referred to the Airworthiness Directives, Safety Management &amp; Research Section, Certification Directorate, EASA. E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a>.</li> <li>3. For any question concerning the technical content of the requirements in this PAD, please contact:<br/> AIRBUS – Airworthiness Office – EAL.<br/> Fax: +33 5 61 93 45 80 or + 33 5 61 93 44 51.<br/> E-mail: <a href="mailto:airworthiness.A330-A340@airbus.com">airworthiness.A330-A340@airbus.com</a> .</li> </ol> |