 Direction générale de l'aviation civile France GSAC publication	AIRWORTHINESS DIRECTIVE No F-2005-112 R1	Distribution: B	Issue date: September 14, 2005	Page : 1/3
	This Airworthiness Directive is published by the DGAC on behalf of EASA, Airworthiness Authority of the State of Design for the affected product, part or appliance.		<i>Translation of « Consigne de Navigabilité » of same number. In case of difficulty, reference should be made to the French issue.</i>	
<p align="center">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.</p>				
Corresponding foreign Airworthiness Directive(s): Not applicable		Airworthiness Directive(s) replaced: F-2005-112 original issue		
Person in charge of airworthiness: AIRBUS SAS		Type(s): A300, A310 and A300-600 aircraft		
Type certificate(s) No. 72 TCDS No 145				
ATA chapter: 28, 24	Subject: Fuel system - Prevention of risks of explosion - Wiring of adjacent system and fuel pump			

1. EFFECTIVITY:

AIRBUS A300, A310 and A300-600 aircraft, all certified models and all serial numbers. Effectivity for each of the actions rendered mandatory is defined in paragraph 3 of this Airworthiness Directive (AD) and in the summary table below.

	A300	A310	A300-600
Action No. 1	X		X
Action No. 2	X	X	X
Action No. 3	X		X
Action No. 4			X
Action No. 5		X	X
Action No. 6	X	X	X

Note 1: "X" actions applicable to the types of aircraft given in the table.

2. REASON:


2.1. Subsequent to the accident to the Boeing 747-131 (flight TWA800), the FAA published SFAR 88 (Special Federal Aviation Regulation 88).

In letters referenced 04/00/02/07/01-L296 of March 4th, 2002 and 04/00/02/07/03-L024 of January 3^d, 2003, the JAA recommended the application of a similar regulation to the National Aviation Authorities (NAA).

Under this regulation, all holders of type certificates for passenger transport aircraft with either a passenger capacity of 30 or more, or a payload capacity of 7,500 pounds (3 402 kg) or more, which have received their certifications since January 1st, 1958 are required to conduct a design review against explosion risks.

Corrective measures intended to improve the routing of the electrical bundles of certain aircraft zones are rendered mandatory by this AD.

2.2. Revision 1 of this AD aims to clarify the applicability paragraphs of each action mandated in paragraph 3. In Paragraph 4, the wording of reference publications is standardized, that is to say, "R0" is replaced by "original issue".

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3. **MANDATORY ACTIONS AND COMPLIANCE TIMES:**

The actions below are rendered mandatory from the effective date of this AD at original issue, unless already accomplished:

Action No. 1: applicable to A300 aircraft, all certified models and all serial numbers except aircraft on which AIRBUS Service Bulletin (SB) A300-28-0057 original issue up to Revision 2 included has been embodied in service and to A300-600 aircraft, all certified models and all serial numbers except aircraft on which AIRBUS modification 6803 has been embodied in production or aircraft on which SB A300-28-6018 original issue up to Revision 1 included has been embodied in service.

At latest on October 31st, 2007, install a heat shrinkable sleeve along the complete length of the electrical supply bundle of the fuel pumps located in metallic protective conduits (zones 571 and 671) in accordance with the instructions of SB A300-28-0057 Revision 2 or SB A300-28-6018 Revision 1.

Action No. 2: applicable to A300 aircraft, all certified models and all serial numbers except aircraft on which SB A300-28-0070 original issue up to Revision 1 included has been embodied in service and to A310 and A300-600 aircraft, all certified models and all serial numbers except aircraft on which AIRBUS modification 11276 has been embodied in production or on which SB A310-28-2112 or SB A300-28-6048 has been embodied in service.

At latest on October 31st, 2007, install a heat shrinkable sleeve along the complete length of the electrical supply bundle of the fuel pumps located in metallic protective conduits (zones 575 and 675) in accordance with the instructions of SB A300-28-0070 Revision 1 or SB A310-28-2112 or SB A300-28-6048.

Action No. 3: applicable to A300 aircraft, all certified models and all serial numbers except aircraft on which AIRBUS SB A300-24-0085 original issue up to Revision 5 included has been embodied in service and to A300-600 aircraft, all certified models and all serial numbers, except aircraft on which AIRBUS modification 10666 has been embodied in production or on which SB A300-24-6043 original issue up to Revision 5 included has been embodied in service.

At latest on October 31st, 2007, modify the electrical bundle retaining and protection system, located at wing/fuselage junction, under the flap control screw jack, in accordance with the instructions of SB A300-24-0085 Revision 5 or SB A300-24-6043 Revision 5.

Action No. 4: applicable to A300-600 aircraft, all certified models and all serial numbers except aircraft on which AIRBUS modification 11741 has been embodied in production or on which SB A300-28-6056 has been embodied in service.


At latest on October 31st, 2007, on RH and LH sides, extend the protective conduits of routes 1P and 2P up to the next support and replace, on this support, the two clamps NSA 5516 type by clamps NSA935807 type in accordance with the instructions of SB A300-28-6056.

Action No. 5: applicable to A310 and A300-600 aircraft, all certified models and all serial numbers except for aircraft on which AIRBUS modification 6478 has been embodied in production or modified in accordance with instructions of SB A310-24-2009 original issue up to Revision 3 included or SB A300-24-6004 original issue up to Revision 3 included.

Within 24 months at latest from the effective date of this AD:

Inspection required

1. Check the condition of the electrical route in accordance with the instructions of SB A310-24-2009 Revision 3 or SB A300-24-6004 Revision 3.
2. According to the results of the inspection, restore the electrical bundles to good condition and replace the nylon clamps by metallic clamps with elastomer lining in accordance with the instructions of SB A310-24-2009 Revision 3 or SB A300-24-6004 Revision 3.

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3. The inspection above must be repeated every 24 months until all clamps have been replaced.

Note 2: The replacement of all nylon clamps by metallic clamps with elastomer lining (NSA5516 or MS21919WDE) in accordance with SB A310-24-2009 (from original issue to revision 3 included) or SB A300-24-6004 (from original issue to Revision 3 included) cancels repetitive inspection.

Action No. 6: applicable to A300 and A310 aircraft, all certified models and all serial numbers except for aircraft on which AIRBUS modification 11763 has been embodied in production or on which SB A300-24-0100 or SB A310-24-2091 has been embodied in service and to A300-600 aircraft, all certified models and all serial numbers except for aircraft on which AIRBUS modification 11763 and 12995 have been embodied in production or on which SB A300-24-6084 has been embodied in service.

At latest on October 31st, 2007, improve the quality of the electrical routing in the hydraulic compartment and in the shroud box by replacing nylon clamps of NSA5515 type by metallic clamps with white silicone lining in accordance with the instructions SB A310-24-2091 or by replacing nylon clamps of NSA5515 type by metallic clamps with white silicone lining and/or change location in routes 11 and 2P to improve wiring loom retention in accordance with the instructions of SB A300-24-0100 or SB A300-24-6084.

4. REFERENCE PUBLICATIONS:

AIRBUS Service Bulletin A300-28-0057 R2
AIRBUS Service Bulletin A300-28-6018 R1
AIRBUS Service Bulletin A300-28-0070 R1
AIRBUS Service Bulletin A310-28-2112 original issue
AIRBUS Service Bulletin A300-28-6048 original issue
AIRBUS Service Bulletin A300-24-0085 R5
AIRBUS Service Bulletin A300-24-6004 R5
AIRBUS Service Bulletin A300-28-0056 original issue
AIRBUS Service Bulletin A310-24-2009 R3
AIRBUS Service Bulletin A300-24-6004 R3
AIRBUS Service Bulletin A300-24-0100 original issue
AIRBUS Service Bulletin A310-24-2091 original issue
AIRBUS Service Bulletin A300-24-6084 original issue
(Any later approved revisions of these SBs are acceptable).

5. EFFECTIVE DATES:

Original issue : July 16, 2005
Revision : September 24, 2005.

6. REMARK:

For questions concerning the technical contents of this AD's requirements, contact:

AIRBUS SAS - Office of Airworthiness EAW - Fax: 33 5 61 93 45 80.

7. APPROVAL:

This AD Revision is approved under EASA reference No.2005-6228 dated September 06, 2005.