GSAC

AIRWORTHINESS DIRECTIVE

released by DIRECTION GENERALE DE L'AVIATION CIVILE

Inspection and/or modifications described below are mandatory. No person may operate a product to which this Airworthiness Directive applies except in accordance with the requirements of this Airworthiness Directive.

Translation of 'Consigne de Navigabilité' ref. : 2001-545(B) R1
In case of any difficulty, reference should be made to the French original issue.

AIRBUS

A330 aircraft

Elevator servo-controls - Life limits (ATA 27)

1. APPLICABILITY:

AIRBUS A330 aircraft, all certified models, all serial numbers.

2. REASONS:

The operational life limits of the aircraft servo-controls, and in particular of the elevator servo-controls given in the Revision 8 of AMM Chapter 05-11-00 Configuration 1 (dated September 15, 1999) are not addressed by the definition of the structural life limits of Safe Life items as defined in Section 9.1 (Life limits/Monitored parts) of the Airworthiness Limitations Section (located in the MPD Section 9) which replaces the aircraft AMM Chapter 05-11. As a result these life limits are removed from the above documents and integrated into this Airworthiness Directive (AD).

In addition, this AD restates the life limits requirements of AD 95-032-008(B) R1, and introduces provisional operational life limits for P/N's SC-4800-7A and SC-4800-9.

The aim of this AD is to require the removal and replacement of the servo-controls when they have reached their operational life limits.

The Revision 1 of this AD aims to increase the operational life limit in active mode of Elevator Servo-controls P/N SC4800 listed in paragraph COMPLIANCE 3.2.3. of this AD, following new test results demonstrating a provisional life of 40,000 cycles and to remove reference of P/N SC4800-2 amendments A, B, C, D, E, F or G and SC4800-4 amendment H which are not anymore in service under this identification.

3. COMPLIANCE:

The following measures are rendered mandatory from the effective date of this AD at original issue:

3.1. For AIRBUS aircraft models A330-301, -321 and -322 fitted with elevator servo-controls 3CS1 and 3CS2 (damping mode) having not received AIRBUS modification 43148 nor AIRBUS Service Bulletin A330-27-3026.

n/CG

…/…

In order to prevent any external hydraulic leakage resulting from an emerging crack and its propagation in the hydraulic block number 1 of one of the elevator servo-controls, installed in damping mode on positions 3CS1 and 3CS2, which could lead to the loss of both the operating function and the associated hydraulic circuit:

- Prior to the accumulation of 4,000 flight hours counted from the date of the initial installation on the aircraft, remove and replace the elevator servo-controls operating in damping mode with the following P/N SC4800-2, SC4800-3, SC4800-4.

3.2. For AIRBUS all A330 aircraft models.

In order to prevent internal damages of the servo-controls installed on positions 2CS1, 2CS2, 3CS1 and 3CS2 and to increase the operational service life of servo-controls operating or having operated in active mode:

3.2.1. Prior to the accumulation of 3,500 flight cycles operated in active mode counted from the date of the initial installation on the aircraft, remove and replace all the elevator servo-controls with the following P/N SC4800-2.

3.2.2. Prior to the accumulation of 7,700 flight cycles operated in active mode counted from the date of the initial installation on the aircraft remove and replace all the elevator servo-controls with the following P/N SC4800-3 and SC4800-6.

3.2.3. Prior to the accumulation of 40,000 flight cycles operated in active mode counted from the date of the initial installation on the aircraft, remove and replace all the elevator servo-controls with the following P/N SC4800-4, SC4800-7, SC-4800-7A, SC-4800-8 and SC-4800-9.

REF.: AIRBUS Service Bulletin A330-27-3026
(Any further approved revision is acceptable).

This Revision 1 replaces original AD 2001-545(B) issued on November 14, 2001.

EFFECTIVE DATES :

Original AD : DECEMBER 08, 2001
Revision 1 : OCTOBER 26, 2002