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PŘÍKAZ K ZACHOVÁNÍ LETOVÉ ZPŮSOBILOSTI

Číslo: CAA-AD-027/2003

Ruší CAA-AD-046/2002

Datum vydání: 06. března 2003

AIRBUS

A300, A310, A300-600ST BELUGA

LETOUN - TRANSFORMÁTOR - USMĚRŇOVAČ - VÝMĚNA/ZMĚNA MEL

Týká se:

letadel AIRBUS aircraft:

- A300, A310 všech certifikovaných verzí a všech výrobních čísel mimo letadel, na kterých byl proveden AIRBUS Service Bulletin (SB) A300-24-0099 nebo A310-24-2088 (AIRBUS modifikace č. 12540).

- A300-600 všech certifikovaných verzí a všech výrobních čísel mimo letadel, na kterých byla provedena AIRBUS modifikace č. 12540 ve výrobě (nebo SB A300-24-6082 v provozu).

- A300-600ST všech výrobních čísel mimo letadel, na kterých byl proveden SB A300-24-9001 (AIRBUS modifikace č. 19516).

Datum účinnosti: 17. dubna 2003

Provést v termínech:

Jak je popsáno v DGAC AD 2003-082(B), od data účinnosti tohoto PZZ.

Postup provedení prací:

Dle DGAC AD 2003-082(B).

Poznámky:

- Provedení tohoto PZZ musí být zapsáno do letadlové knihy.

- Případné dotazy týkající se tohoto PZZ adresujte na ÚCL sekce technická - Ing. Toman.

- Pokud to vyžaduje povaha tohoto PZZ, musí být zapracován do příslušné části dokumentace pro obsluhu, údržbu a opravy letadla.

- Tento PZZ byl vypracován na základě DGAC AD 2003-082(B), který nahrazuje DGAC AD 2002-185(B), který byl zrušen DGAC AD 2002-185(B) R1.

Ing. Pavel MATOUŠEK
ředitel

DGAC AD 2003-082(B)

AIRBUS A300, A310, A300-600 and A300-600ST BELUGA aircraft

Electrical power - Transformer Rectifier Units (TRU's) (ATA 24)

1. APPLICABILITY:

AIRBUS aircraft:

- A300, A310 all certified models and all serial numbers except for aircraft on which AIRBUS Service Bulletin (SB) A300-24-0099 or A310-24-2088 (AIRBUS modification No. 12540) has been embodied.
- A300-600 all certified models and all serial numbers, except for aircraft on which AIRBUS modification No. 12540 has been embodied in production (or SB A300-24-6082 in service).
- A300-600ST all certified serial numbers except for aircraft on which SB A300-24-9001 (AIRBUS modification No. 19516) has been embodied.

2. REASONS:

Following the in flight loss of the DC NORMAL BUS on an A310 on November, 1996, attributed to a double failure of transformers rectifiers (TRU) caused by an internal overheating, the manufacturer launched a design change of these TRU's, which aimed at lowering the temperature threshold of internal fan starting.

Airworthiness Directives (AD) 1999-435-296(B) rendered mandatory the installation of TRU P/N F11QY3121 (in place of TRU P/N F11QB3121), before September 30, 2001, by embodiment of SB's A300-24-0089, A310-24-2077 and A300-24-6068 linked to AIRBUS Modification No. 11771.

On 2000 and 2001, despite this modification, a low reliability of TRU 'QY' was still observed. Additional manufacturer analysis and test pointed out the rectifier diodes P/N F120N0018/19 as the main contributing factor to TRU 'QY' poor reliability.

A new modification was then launched which includes the followings improvements:

- temperature threshold of the internal fan modification,
- "C" diodes installation (in place of "A" and "B" diodes),
- new primary transformer filter capacitor,
- new location of above capacitor (less warm TRU area),
- change of secondary transformer filter.

In parallel, the operation of the aircraft was rendered more restrictive and a temporary revision of the Master Minimum Equipment List (MMEL) was issued and rendered mandatory by AD 2002-185(B) since April 2002.

This new AD resumes the requirements of AD 2002-185(B) and renders mandatory the terminative action consisting in installing new certified THALES AES TRU's on aircraft (AIRBUS modifications 12540 and 19516).

3. COMPLIANCE:

3.1. Operational restriction

From April 13, 2002 (effective date of AD 2002-185(B) at original issue), introduce the following manufacturer's MMEL temporary revision into the aircraft Minimum Equipment List (MEL):

- A300 TR No. 1-24/02F issue 01 approved by the DGAC on June 22, 2001,
- A310TR No. 01-24/01J issue 02 approved by the DGAC on June 14, 2001,
- A300-600 TR No. 01-24-/01I issue 02 approved by the DGAC on June 14, 2001,
- A300-600ST TR No. 01-24/01A issue 02 approved by the DGAC on June 14, 2001,

and conform with these directives until accomplishment of actions in paragraph 3.2. below.

3.2. Terminative action

On April 30, 2006 at the latest, replace THALES AES TRU's P/N F11QY3121 by THALES AES TRU's P/N F11QY3714 in accordance with the instructions of SB A300-24-0099 or A310-24-2088 or A300-24-6082 or A300-24-9001 as applicable.

REF.:

AIRBUS Service Bulletins:

A300-24-0099

A310-24-2088

A300-24-6082

A300-24-9001

(Any later approved revision of these SBs is acceptable) MMEL Temporary Revisions:

A300 TR No. 1-24/02F issue 01

A310TRNO. 01-24/01J issue 02

A300-600 TR No. 01-24-/01I issue 02

A300-600ST TR No. 01-24/01A issue 02

This AD replaces AD 2002-185(B) which is cancelled.

EFFECTIVE DATE: MARCH 01, 2003