



ÚŘAD PRO CIVILNÍ LETECTVÍ
ČESKÁ REPUBLIKA
Sekce technická

letišť Ruzyně, 160 08 Praha 6
tel: 233320922, fax: 220562270

PŘÍKAZ K ZACHOVÁNÍ LETOVÉ ZPŮSOBILOSTI

Číslo: CAA-AD-027/2003R1

Nahrazuje CAA-AD-027/2003

Datum vydání: 16. dubna 2004

AIRBUS

A300, A310, A300-600

LETOUN - ELEKTRICKÁ SOUSTAVA - USMĚRŇOVAČ - VÝMĚNA

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).

Datum účinnosti: 10. června 2004

Provést v termínech:

Jak je popsáno v F-2003-082 R1, od data účinnosti tohoto PZZ.

Postup provedení prací:

Dle F-2003-082 R1.

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 F-2003-082 R1, který nahrazuje DGAC AD 2003-082(B).

Ing. Pavel MATOUŠEK
ředitel

DGAC AD No.: F-2003-082 R1

AD replaced: 2003-082 originale issue

Issue date: March 31, 2004

AIRBUS

A300, A310 and A300-600 aircraft

Type certificate(s) No. 145

TCDS No. 145

ATA chapter: 24

Subject: Electrical power - Transformer Rectifier Units (TRU's)

1. EFFECTIVITY:

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).

[...]

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 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 and renders mandatory the terminative action consisting in installing new certified THALES AES TRU's on aircraft (AIRBUS modifications 12540).

Revision 1 of this AD aims at:

- introducing a clarification concerning applicable publications listed at paragraph 4 of this AD,
- excluding A300-600ST (BELUGA) aircraft which is dealt with by AD F-2004-041.

3. MANDATORY ACTION AND COMPLIANCE TIME:

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,

[...]

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 as applicable.

4. REFERENCE PUBLICATIONS:

AIRBUS Service Bulletins:

A300-24-0099

A310-24-2088

A300-24-6082

[...]

Any later approved revision of these SBs is acceptable).

MMEL Temporary Revisions:

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

A310TR No. 01-24/01J issue 02

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

[...]

Any later approved revision of these MMEL is acceptable.

EFFECTIVE DATE:

Original issue: March 01, 2003

Revision 1: April 10, 2004.

6. REMARK

For questions concerning the technical contents of this AD's requirements, contact:
AIRBUS - Hubert Angelier - Facimile: 33561934580.

7. APPROVAL:

This AD Revision is approved under EASA reference No 2004-3055 dated March 23, 2004.