

# PŘÍKAZ K ZACHOVÁNÍ LETOVÉ ZPŮSOBILOSTI

**CAA-AD-048/1999R1**

Nahrazuje CAA-AD-048/1999

Datum vydání: 04. srpna 2000

## **LETOUN - PODMÍNKY SILNÉ NÁMRAZY (ATA 30)**

**Týká se:** všech letadel ATR 42 -200, -300, -320, -400, -500.

**Datum účinnosti:** 05. říjen 2000

**Provést v termínech:** Jak je popsáno v DGAC AD 1999-165-077(B) R1 (příloha tohoto PZZ).

**Postup provedení prací:** Dle DGAC AD 1999-165-077(B) R1.

Poznámky: Provedení tohoto PZZ musí být zapsáno do letadlové knihy. Případné dotazy týkající se tohoto PZZ adresujte na ÚCL technický inspektorát - Ing. Stibůrek. 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 1999-165-077(B) R1, který nahrazuje DGAC AD 1999-165-077(B).

**Ing. Pavel MATOUŠEK**  
**Ředitel technického inspektorátu**  
**Úřad pro civilní letectví**

**DGAC AD ref.: 1999-165-077(B) R1**

AEROSPATIALE

**ATR 42 Airplane**

Severe icing conditions - Implement aircraft design enhancements (ATA 30)

### **I. APPLICABILITY:**

Airplane ATR 42, model -200, -300, -320, -400, -500.

### **2. REASON:**

Accumulated experience on the worldwide fleet of commuter aircraft, and a recently reported in-flight incident, lead to recall that a prolonged exposure to severe icing conditions, outside the certification envelope, can lead to performance degradation and to stall.

The reason for prolonged exposures to such severe icing conditions are late detection of these conditions and/or non or late application of the AFM, which require the immediate exiting of the severe icing conditions as soon as detected.

Compliance with the previously mandated procedures is therefore essential for the safety of flight.

However, it is recognized that, even if the exit maneuver is initiated rapidly after detection, it may take a few minutes before the airplane is out of the severe icing conditions.

Consequently, DGAC acting as the primary authority for the ATR program, has mandated a first measure which has been to increase by 10kt the minimum maneuver/operating icing speeds when severe icing is detected. This was mandated by AD No.1999-014-076(B).

Furthermore, it has been recorded that, in several occurrences, crews have failed to activate the deicing boots, despite the fact that ice accretion had been detected by the Anti-icing Advisory System. This has led ATR to develop an enhancement of the alerting capability of the AAS system. The modification implementing this enhancement is mandated by this AD.

As part of its continual efforts to enhance safety, ATR has designed extended median boots which further enhance the aircraft's performance in case of prolonged severe icing encounters. In addition, since it is DGAC policy to avoid relying only on procedures to address safety issues, the modification implementing this design change is mandated by the present AD.

Revision 1 of this AD is issued in order to take into account revisions of references Service Bulletins without modifying the technical content of this AD.

### **3. ACTIONS:**

3.1. Reinforce crew awareness and vigilance by embodying AEROSPATIALE modification No. 5008 "modification of the ICING light flashing logic" in accordance with Service Bulletin ATR 42-30-0065.

3.2. For airplanes on which AEROSPATIALE modifications No. 4993 and 4998 have not been accomplished replace the median wing boots by extended boots and install boots on the metallic leading edge by embodying AEROSPATIALE modification No. 8209 and No. 8211 in accordance with Service Bulletin ATR42-30-0063 and ATR42-30-0064 both at revision 1.

Note : the requirements of paragraphs 3.1 and 3.2 can be accomplished separately.

### **4. COMPLIANCE:**

The requirements of paragraphs 3.1 and 3.2 must be accomplished at the first opportunity and no later than September 30, 2001.

Remark: Inquiries regarding the technical content of this Airworthiness Directive should be made to DGAC/SFACT/N-AT, tel.: 33.1.41.09.48.79, fax: 33.1.41.09.43.19.

**REF.:** Service Bulletin ATR42-30-0065

Service Bulletin ATR42-30-0063R1

Service Bulletin ATR42-30-0064R1

Any further revision of these Service Bulletins is acceptable.

Revision 1 of this AD replaces AD 1999-165-077(B) issued on April 21, 1999.

### **EFFECTIVE DATES:**

Original AD: MAY 1st, 1999

Revision 1: JULY 22, 2000