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. : 2002-073-063(B) R2 In case of any difficulty, reference should be made to the French original issue.

ATR

ATR 72 aircraft

Propellers - Pitch change system component (ATA 61)

1. APPLICABILITY:

ATR 72-101, -102, -201, -202, -211, and -212 model aircraft.

2. REASONS:

During years 1999 and 2000, three cases of propeller pitch lock, during final approach, have been experienced on ATR fleet. During two of these events the asymmetric power resulting from the propeller pitch lock was not recognized by the crew during landing and the aircraft veered off the runway after selection of reverse power while the "Low Pitch" condition was not effective for both engines.

On one case, the investigation led on the suspected components of the propeller pitch control system showed significant anomalies on a pitch control unit (PCU) servo ball screw. The hang up and the loss of efficiency noted on the test bench is due to ball screw contamination. On aging PCU fitted on 14SF11/14SFL11/247F-1 Hamilton Sundstrand propellers, these anomalies could contribute to a pitch lock condition especially when they combine with another component failure of the propeller pitch control system.

The actions rendered mandatory by this Airworthiness Directive (AD) are intended to clean the ball screw in order to avoid a propeller pitch lock situation and reduced controllability of the aircraft during landing.

Revision 1 of this AD aims at clarifying the paragraph 3.

Revision 2 of this AD aims at specifying the TR number of the PCU Component Maintenance Manuel (CMM) for 247F-1 propellers.

3. **COMPLIANCE**:

January 08, 2003

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

- Before reaching 10,500 FH since new or since last Critical Parts Inspection (CPI),
- or in case of contamination,
- or in case of anomalies noted during Production Acceptance Tests (PAT),

.../...

n/CG

ATR ATR 72 aircraft

2002-073-063(B) R2

GSAC		AIRWORTHINESS	DIRECTIVE	ref. :	2002-073-063(B) R2	Page n° 2
1					of the PCU CMM 61-21- ndstrand 14SF11 or 14SF	
					of the PCU CMM 61-21- ndstrand 247F-1 propelle	
	Note:	The actions mandate	d by this AD comple	ete the pre	escriptions of the AD 2002	?-072-064(B).
I		<u>REF</u> .:	HAMILTON SUNI			
.	This Revision	on 2 replaces AD 200	2-073-063(B) R1 is	sued on M	1AY 15, 2002.	
			EFFECTIV	E DATES	<u> </u>	
		Original Revision	AD and Revision n 2		BRUARY 02, 2002 IUARY 18, 2003	