AIRWORTHINESS DIRECTIVE

For the reasons set out in the background section, the CASA delegate whose signature appears below issues the following Airworthiness Directive (AD) under subregulation 39.001(1) of CASR 1998. The AD requires that the action set out in the requirement section (being action that the delegate considers necessary to correct the unsafe condition) be taken in relation to the aircraft or aeronautical product mentioned in the applicability section: (a) in the circumstances mentioned in the requirement section; and (b) in accordance with the instructions set out in the requirement section; and (c) at the time mentioned in the compliance section.

Embraer ERJ-190 Series Aeroplanes

AD/ERJ-190/16 Fasteners at Bulkhead 1 12/2008 DM

Applicability: Embraer ERJ 190 aircraft models of serial numbers (S/N) 19000047 thru 19000089.

Requirement: Action in accordance with the technical requirements of Brazilian Airworthiness directive 2008-09-02.

Note: Embraer Service Bulletin No. 190-54-0008 original issue or later ANAC approved revision.

Compliance: As specified in the requirement document.

This Airworthiness Directive becomes effective on 30 September 2008.

Background: Embraer have discovered the possibility of some aluminium fasteners having been installed instead of titanium ones at bulkhead 1 of the LH and RH pylons of some Embraer ERJ 190 aircraft. In the event of a bird strike to a pylon fitted with aluminium fasteners, there is the possibility that the impact may affect some equipment installed in the region aft of bulkhead 1. Damage to the hydraulic lines and electrical generator power cables may lead to a fire in the region, without indication to the flight crew. This directive mandates the one time inspection to the fasteners of bulkhead 1 of the LH and RH pylons, and, if necessary, their subsequent replacement with titanium fasteners.

David Villiers
Delegate of the Civil Aviation Safety Authority

25 September 2008