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 EMB-135 and EMB-145 Series Aeroplanes

AD/EMB-145/7 Ice Detector Wiring Conduit 8/2008

Applicability: EMB-145XR model aircraft.

Requirement: Unless already accomplished, remove the sealant used to protect the left hand and right hand clear ice detectors wiring conduits at the holes through the wing spars in accordance with the detailed instructions and procedures described in Embraer Service Bulletins (SB) 145-30-0048, original issue, or SB 145LEG-30-0015 original issue, or further revisions approved by the Brazilian Agência Nacional de Aviação Civil (ANAC).

Note 1: The "145LEG" series of Embraer Service Bulletins only applies to Legacy executive jets.

Note 2: ANAC AD 2007-02-03 refers.

Compliance: Within the next 5,000 hours time in service or four calendar years after 15 March 2007 (the effective date of ANAC AD 2007-02-03), whichever occurs first.

This Airworthiness Directive becomes effective on 31 July 2008.

Background: The ANAC has advised that instances of fuel leakage inside the conduit used to route the clear ice detector wiring through the wing fuel tank have been reported. It is possible to have fuel accumulation inside the conduit due to wiring protection sealant in the conduit end. The absence of the ability to detect fuel leakage in the clear ice detector wiring conduit, when associated with an ignition source, could result in fire or explosion inside the tank.

James Coyne
Delegate of the Civil Aviation Safety Authority

16 June 2008