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-145/22 Landing Gear Electronic Unit 3/2009

Applicability: EMB-135 and EMB-145 series aeroplanes equipped with Landing Gear Electronic Unit (LGEU) part number (P/N) 355-022-002.

Requirement:

1. Replace any LGEU P/N 355-022-002 with serial number (S/N) from 1000 to 1999 with LGEU P/N 355-022-003, according to the detailed instructions and procedures described in the Embraer Service Bulletins (SB) 145-32-0120 original issue or 145LEG-32-0032 original issue, as applicable, or later revisions approved by the Brazilian Agência Nacional de Aviação Civil (ANAC).

2. Replace any LGEU P/N 355-022-002 with any S/N not included in Requirement 1 with LGEU P/N 355-022-003, according to the detailed instructions and procedures described in the SB 145-32-0120 original issue or SB 145LEG-32-0032 original issue, as applicable, or later revisions approved by the ANAC.

3. LGEU P/N 355-022-002 may not be installed on any aeroplane as either a replacement spare or new installation.

Note: ANAC AD 2009-01-01 and Errata refers.

Compliance: For Requirement 1 - Within the next 12 months after the effective date of this Directive.

For Requirement 2 - Within the next 30 months after the effective date of this Directive.

For Requirement 3 - After 12 September 2011.

This Airworthiness Directive becomes effective on 12 March 2009.

Background: The ANAC has received a report advising that after commanding the landing gear lever to down the three green landing gear positioning indication was displayed followed by the LG/LEVER DISAGREE EICAS message. The crew decided to continue the approach and landing procedure. As soon as the crew identified that the landing gear was not extended properly, a go-around procedure was successfully performed. During manoeuvre, the aeroplane settled momentarily onto the flaps and belly.

Embraer EMB-135 and EMB-145 Series Aeroplanes

AD/EMB-145/22 (continued)

Since this condition may occur in other aeroplanes of the same type and affects flight safety, a corrective action is required.

James Coyne
Delegate of the Civil Aviation Safety Authority

27 January 2009