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-190/14 Main Fuel Pump 8/2008

Applicability: Embraer ERJ-190 aircraft with engine main fuel pump part number (P/N) 2043M12P03 or P/N 2043M12P04 installed.

Requirement: Remove engine main fuel pumps P/N 2043M12P03 and P/N2043M12P04 from service and install a serviceable engine main fuel pump according instructions of Embraer Service Bulletin No. 190-73-0007 or later NAA approved revision.

Note 1: If for any reason this AD is being incorporated in both engines at the same aircraft stop, each engine should be serviced by a different maintenance crew.

Note 2: For the purpose of this AD, a suitable engine main fuel pump is one that does not have P/N 2043M12P03 or P/N 2043M12P04.

Note 3: AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL AD 2006-09-04R1 dated 5 February 2007 refers.

Compliance: Within 30 days after the effective date of this AD, unless previously accomplished.

This Airworthiness Directive becomes effective on 31 July 2008.

Background: There have been instances of in flight engine flameout due to engine main fuel pump malfunction. Investigations revealed that the cause of the failure was the fuel strainer flange which after breakage releases the filter set from the strainer body. The filter set impacts against the engine main fuel pump gears causing its jam causing fuel flow interruption, thus leading to engine flameout.

This AD requires the replacement of the affected pumps with a pump with a serviceable pump.

James Coyne
Delegate of the Civil Aviation Safety Authority

13 June 2008