Embraer ERJ-170 Series Aeroplanes

**AD/ERJ-170/10**  
**Firewall Hydraulic Shutoff Valves**  
**10/2009**  
**Amdt 2**

**Applicability:**  
Embraer ERJ-170( ) aircraft fitted with firewall hydraulic shutoff valves (FWSOV) part number (P/N) 975287-3 or P/N 975287-5.

**Requirement:**  
Perform an operational check in accordance with Embraer Service Bulletin No. 170-29-0013 original issue 12 December 2006, or further ANAC approved revisions, for proper operation of the firewall hydraulic shutoff valves P/N975287-3 or P/N 975287-5. If necessary, replace the faulty hydraulic shutoff valve with a serviceable FWSOV.

For the purpose of this AD, an operational check is: “A task to determine that an item is fulfilling its intended purpose. The check does not require quantitative tolerances. This is a failure finding task.”

For the purpose of this AD, a suitable FWSOV is a firewall hydraulic shutoff valve P/N 975287-3 or 975287-5 that has passed the operational check described in Embraer SB No. 170-29-0013 or either the replacement of these valves by others bearing a new P/N.

**Note:** Agência Nacional De Aviação Civil - Brazil Airworthiness Directive AD No. 2007-02-01R2 dated 17 July 2009 refers.

**Compliance:**  
Remains unchanged as detailed in the original issue of this AD as: Within the next 600 flight hours after 7 June 2007, and thereafter at intervals that do not exceed 600 flight hours.

This Amendment becomes effective on 24 September 2009.

**Background:**  
Periodic operational check of the firewall hydraulic shutoff valves, made during routine maintenance, has revealed that the failure rate of that component is significantly higher than expected. Such a dormant failure, when combined with further possible failures, such as engine fire, may lead to an unacceptable reduction of safety margins.

Amendment 1 added an additional part number valve to the applicability section with no change to the requirement section.
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AD/ERJ-170/10 Amdt 2 (continued)

This amendment removes the requirement to replace the FWSOV with one bearing the same P/N.

The original issue of this AD became effective 7 June 2007.

Amendment 1 of this AD became effective on 25 October 2007.

James Coyne
Delegate of the Civil Aviation Safety Authority

14 August 2009