

Proposed Special Condition on CS 25.853 – Compartment Interiors

Applicable to Gulfstream (GALP) Model G280.

Introductory note:

The hereby presented Special Condition to the EASA Certification Basis shall be subject to public consultation, in accordance with EASA Management Board decision 12/2007 dated 11 September 2007, Article 3 (2.) of which states: "2. Deviations from the applicable airworthiness codes, environmental protection certification specifications and/or acceptable means of compliance with Part 21, as well as important special conditions and equivalent safety findings, shall be submitted to the panel of experts and be subject to a public consultation of at least 3 weeks, except if they have been previously agreed and published in the Official Publication of the Agency. The final decision shall be published in the Official Publication of the Agency."

STATEMENT OF ISSUE:

GALP intends to manufacture the rudder pedals in the Model G280 from Magnesium Alloy. The original design used conventional aluminum alloy. EASA acknowledges that there is no explicit prohibition in the existing requirements on the use of magnesium alloys in the cabin.

However, the potentially hazardous nature of this material and the possibility of a post crash fire igniting the magnesium alloy parts in the Cabin could, due to the effects of its burning, make the occupied compartments less survivable.

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As GALP wishes to retain the magnesium pedals in the G280 type design, a plan detailing the certification testing of the affected components to show compliance with FAR/CS 25.853, Appendix F, Part II, will be submitted to EASA for approval.