BACKGROUND ON SPECIAL CONDITION SC-A22.1-01

Increase in maximum mass for sailplanes and powered sailplanes

Introductory note:
The hereby presented Special Condition has been classified as an important Special Condition and as such shall be subject to public consultation, in accordance with EASA Management Board decision 02/04 dated 30 March 2004, 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
Applicants have applied for an EASA Type Certificate or changes to an EASA Type Certificate for sailplanes and powered sailplane exceeding the defined applicability of CS22.1 (1) and (2).

The increased maximum mass is a novel and unusual design feature for an aeroplane certified under CS 22. It has to be defined that the applicable airworthiness requirements do contain adequate or appropriate safety standards and if additional requirements have to be applied for this project. A Special Condition will be applied to ensure a level of safety equivalent according to Annex I of the basic regulation 216/2008. A public consultation is needed according to EASA procedures.

EASA position
EASA agrees that the requirements of CS 22/JAR22 are applicable for powered sailplanes with a maximum mass of 900 kg and for sailplanes with a maximum mass of 850 kg. The most important issue that should be addressed is the higher energy in Emergency Landing Conditions

The increase from 850 kg to 900 kg of the overall applicability of CS 22 was accepted before and is already foreseen in the EASA rulemaking. By exceeding the mass limit of CS 22 by approximately 6 % the requirements of CS 22 were still applicable.

SUBJECT	:	**Increase in maximum mass for sailplanes and powered sailplanes**
CERTIFICATION SPECIFICATION	:	CS 22.1
PRIMARY GROUP / PANEL	:	03 (Structure)
SECONDARY GROUPE / PANEL	:	01 (Flight) 02 (Performance)
NATURE	:	SCN

SPECIAL CONDITION

Increase in maximum mass for sailplanes and powered sailplanes

SC A22.1-01 - Applicability

A maximum mass of 900 kg for powered sailplanes and 850 kg for sailplanes may be accepted if the following requirement can be complied with:

- Demonstration of compliance with all paragraphs of the applicable Type Certification Basis CS-22/JAR 22 for the higher MTOM.
- Important compliance demonstration is related to stalling speeds, emergency landing condition and environmental protection requirements.
- In case of existing special conditions or equivalent safety finding in the certification basis the applicability of special condition SC A22.1-01 has to be checked.