

This annex to TCDS No. EASA.A.627 was created to publish selected equivalent safety findings that are part of the applicable certification basis:

### **Equivalent Safety Finding – CS-22.207 (a) – stall warning with engine extended**

With extended power plant, engine stopped and propeller uncontrolled, the beginning stall warning of the powered sailplane is superimposed by rocking due to the extended power plant in the airstream. The absence of a stall warning according to CS 22.207(a) is acceptable in this configuration because of the following reasons:

- Flying with extended power plant and stopped engine is only a temporary flying condition.
- The minimum allowed speed for extension and retraction of the power plant is 90 km/h (see flight Manual) and therefore well above the stalling speed in the provided flap settings with rear C.G. position and retracted airbrakes.
- Approach with extended power plant is not provided and only an emergency procedure.
- A stall during the extension and engine start procedure is not likely because the airspeed needed for starting the engine is well above the stalling speeds.
- The stalling behavior in this configuration is very docile, normal flight is regained with little loss in altitude.
- The extension and the retraction of the power plant is very easy for the pilot and requires only little attention and the pilot can concentrate his attention on flying.

### **Equivalent Safety Finding – CS-22.207 (c) – begin of stall warning**

Although the stall warning starts at a speed higher than  $1,1 \times V_{S1}$  (IAS) this behavior can be accepted because the IAS-values drop quickly to lower values and give a very good information about the coming stall.

### **Equivalent Safety Finding – CS-22.335 (f)**

The definition of  $V_D$  is based on the report “Concerning the deduction of design maximum speed  $V_D$  in the airworthiness requirements LFS, LFSM, OSTIVAS and JAR 22”, LBA issued 11.09.2001. In this document,  $V_D$  is defined as the speed that occurs in the flight polar at a decent rate of 7,81 m/s.

**END**