



Federal Aviation Administration

Memorandum

Date: February 2, 2010

To: Manager, Small Airplane Directorate, ACE-100

From: /s/ C.L. Smalley Manager, Chicago Aircraft Certification Office, ACE-115C

Prepared by: Wess Rouse, ACE-117C

Subject: Extension of Equivalent Level of Safety (ELOS) for Cockpit Controls and Cockpit Control Knob Shape to Cirrus Design Corporation Model SR22T, Federal Aviation Administration Project #AT6893CH-A

ELOS Memo#: ACE-08-05A

Regulatory Ref: 14 CFR, part 23, § 23.777(d) & § 23.781(b)

Cirrus Design Corporation requests extension of existing equivalent level of safety (ELOS), ACE-08-05 (attached), for Cockpit Controls 14 CFR, part 23, § 23.777(d) & Cockpit Control Knob Shape 14 CFR, part 23, § 23.1147(b) to the model SR22T airplane.

The model SR22T is a derivative airplane proposed to be added to Type Certificate (TC) A00009CH along with existing certified models SR20 and SR22. The SR22T has an engine upgrade to the turbocharged Teledyne Continental Motors (TCM) TSIO-550-K and other associated modifications (model SR22 uses TCM IO-550-N).

Cirrus has provided the attached letter in support of extending ELOS ACE-08-05 from the model SR22 Full Authority Digital Engine Control (FADEC) to the model SR22T. The letter maintains that the parameters covered by the ELOS are unchanged from model SR22 FADEC equipped airplanes. The letter also goes on to state that the ELOS should apply to all SR22T airplanes rather than only FADEC equipped SR22T airplanes.

The Chicago Aircraft Certification Office (ACO) concurs with the requested ELOS extension as described above and has verified that no changes have been made to regulations § 23.777 and § 23.781, since the original issuance of ELOS number ACE-08-05. The ACO also concurs that the ELOS extension should apply to all model SR22T airplanes and not just FADEC equipped airplanes. The issue paper associated with ELOS ACE-08-05 was written to cover all model SR22 airplanes; whereas the ELOS was mistakenly written to only cover FADEC equipped SR22 airplanes. Concurrence of the Small Airplane Directorate is requested.

David R. Showers for
 Kim Smith, Manager, Small Airplane Directorate
 Aircraft Certification Service

2-2-10
 Date

ELOS Originated by Chicago ACO:	Charles L. Smalley Manager, Chicago ACO	Routing Symbol ACE-115C
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