



# 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 Pitot Heat Indication Systems to Cirrus Design Corporation Model SR22T, Federal Aviation Administration Project #AT6893CH-A

ELOS Memo#: ACE-09-06A

Regulatory Ref: 14 CFR, part 23, § 23.1326(b)(1)

Cirrus Design Corporation requests extension of existing equivalent level of safety (ELOS), ACE-09-06 (attached), for Pitot Heat Indication Systems 14 CFR, part 23, § 23.1326(b)(1) 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-09-06 from SR22 Flight Into Known Icing (FIKI) equipped airplanes to the model SR22T. The letter maintains that the parameters covered by the ELOS are unchanged from model SR22 FIKI 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 concurs with the requested ELOS extension as described above and has verified that no changes have been made to regulation § 23.1326, since the original issuance of ELOS number ACE-09-06. The ACO also concurs that the ELOS extension should apply to all model SR22T airplanes and not just SR22T FIKI equipped airplanes. The model SR22T will have regulation § 23.1326 in its certification basis, whereas, the model SR22 did not have regulation § 23.1326 in its certification basis until added for FIKI equipped 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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