



U.S. Department
of Transportation
**Federal Aviation
Administration**

Memorandum

Subject: Information: Equivalent Level of Safety Finding for the Alenia Aeronautica Model C-27J
FAA Project Number TC03711B-T

Date: June 3, 2010

From: Manager, Propulsion/Mechanical Systems Branch,
ANM-112
Transport Standards Staff

Reg Ref: 14 CFR
25.1305(e)(1)

Reply to
Attn of: Michael Collins
ANM-112

To: Manager, International Branch, ANM-116

ELOS
Memo #: TC03711B-T-P-3

Background

Section 25.1305(e)(1) requires, for turbo-propeller airplanes, a torque indicator for each engine. The C-27J is provided with an engine power indication (HP) for each engine.

Applicable regulation(s)

14 CFR part 25.1305(e)(1)

Regulation(s) requiring an ELOS

14 CFR part 25.1305(e)(1)

Description of compensating design features or alternative standards that allow the granting of the ELOS (including design changes, limitations or equipment need for equivalency)

The powerplant incorporates a constant speed propeller, and thus the power indication is directly proportional to the engine torque and therefore an equivalent indication is provided to the pilot.

Explanation of how design features or alternative standards provide an equivalent level of safety to the level of safety intended by the regulation

The powerplant incorporates a constant speed propeller, and thus the power indication is directly proportional to the engine torque and therefore an equivalent indication is provided to the pilot.

FAA approval and documentation of the ELOS

The FAA has approved the aforementioned equivalent level of safety finding as documented in Issue Paper P-3. This memorandum provides standardized documentation of the ELOS that is non-proprietary and can be made available to the public. The Transport Airplane Directorate has assigned a unique ELOS Memorandum number (see front page) to facilitate archiving and retrieval of this ELOS. This ELOS Memorandum number should be listed in the Type Certificate Data Sheet under the Certification Basis section. [e.g., Equivalent Safety Findings have been made for the following regulation(s):

FAR 25.1305(e)91) requirements applicable to engine torque indications
 [(documented in TAD ELOS Memo TC0371IB-T-P-3)]



JUNE 3, 2010

 Manager, Propulsion/Mechanical Systems Branch,
 ANM-112
 Transport Standards Staff

 Date

ELOS Originated by: Standards Staff, Propulsion Branch	Project Engineer: Michael Collins	Routing Symbol: ANM-112
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