



TERMS OF REFERENCE

Task Nr: 25.022
Issue: 1
Date: 31 August 2009
Regulatory reference: CS-25¹
Reference documents: FAR Part 25, in particular Final Rule ref. Docket N° FAA-2007-27654/ Amendment N° 25-129²

1. Subject: Activation of ice protection system

2. Problem / Statement of issue and justification; reason for regulatory evolution (regulatory tasks):

Large Aeroplanes accidents and incidents occurred where the flightcrew was either completely unaware of ice accretion on the airframe, or was aware of ice accretion, but judged that it was not significant enough to warrant operation of the airframe ice protection system (IPS). A typical accident example is the one which occurred to an ATR 72 in Roselawn, Indiana (USA) on October 31, 1994; this aeroplane was operating in icing conditions and crashed after a rapid descent following an un-commanded roll excursion.

The activation of IPS relying on flightcrew observations can be difficult during times of high workload, operations at night, or when clear ice has accumulated.

3. Objective:

Improve the safety of flight in icing conditions for new Large Aeroplanes Types, by ensuring that flightcrews are provided with a clear means to know when the airframe IPS must be activated.

4. Specific tasks and interface issues (Deliverables):

In order to improve flightcrew response to ice accretion, it is proposed to amend CS-25 provisions to ensure the timely activation of the airframe IPS by flightcrews.

This amendment should be done in harmonization with FAA final rule amending FAR Part 25 (ref. Docket N° FAA-2007-27654; Amendment N° 25-129) which will be effective 2 September 2009.

5. Working Methods (in addition to the applicable Agency procedures):

Agency

¹ Agency Decision 2003/02/RM of 17 October 2003 on certification specifications, including airworthiness codes and acceptable means of compliance, for large aeroplanes (« CS-25 »)

² FAA TSO's are available at <http://www.airweb.faa.gov>

6. Time scale, milestones:

NPA publication: September 2009

ED Decision: October 2009