



TERMS OF REFERENCE

Task Nr: ETSO.009
Issue: 1
Date: 31 August 2009
Regulatory reference: CS-ETSO¹
Reference documents: FAA TSO C16 and C16a²

1. Subject: ETSO C16 update
2. Problem / Statement of issue and justification; reason for regulatory evolution (regulatory tasks): <p>Current European Technical Standard Order (ETSO) C16 "Airspeed Tubes (Electrically Heated)" is based on SAE performance standard AS393. A more recent performance SAE standard exists (AS8006) and it is used as a basis in FAA Technical Standard Order (TSO) C16a "Electrically heated pitot and pitot-static tubes" (effective since 6 October 2006). AS8006 provides more detailed qualification test requirements for de-icing and anti-icing test. Thus an update of EASA ETSO based on AS8006 standard is suitable.</p> <p>Moreover, the recent Air France A330 accident (F-GZCP) investigation identified inconsistent measured airspeed which could be attributed to pitot probes faults in icing condition. Without presuming on the potential contribution of this fact on the accident, the Agency, as a precautionary measure, has decided to propose an update of the ETSO for pitot and pitot-static pressure probes.</p>
3. Objective: <p>Update ETSO C16 with the last available standards to ensure that the new ETSO applicants will use the best available qualification requirements.</p>
4. Specific tasks and interface issues (Deliverables): <p>Update the current ETSO C16 "Airspeed Tubes (Electrically Heated)" in harmonization with the existing FAA TSO-C16a "Electrically heated pitot and pitot-static tubes".</p>
5. Working Methods (in addition to the applicable Agency procedures): <p>Agency</p>
6. Time scale, milestones: <p>NPA publication: September 2009 ED Decision: October 2009</p>

¹ Agency Decision 2003/10/RM of 24 October 2003 on certification specifications, including airworthiness codes and acceptable means of compliance, for European Technical Standard Orders («CS-ETSO»). Decision as last amended by decision 2008/012/R.

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