**SESSION 2: AIRCRAFT NOISE CERTIFICATION**

**THE ICAO ENVIRONMENTAL TECHNICAL MANUAL**

(Presented by Guy Readman)

**SUMMARY**

The ICAO Environmental Technical Manual (ETM) provides guidance material for, and describes acceptable means of compliance to, the ICAO noise certification Standards and Recommended Practices of Annex 16, Volume I. The presentation and this associated BIP represents a short introduction to the ETM, describing its contents and aims.

1.1        Ever since the introduction of the first ICAO noise certification requirements in 1971 (Annex 16, Amendment 1) applicants and authorities have needed guidance material on how these requirements are to be applied. Whilst the basic requirements have remained largely unchanged, applicants have, over the years, developed test and analytical procedures for demonstrating compliance that are different to those specified in the Annex. Authorities have accepted these different procedures on the basis that they are equivalent to those specified in the Annex.

1.2        Many of these equivalent procedures are now ubiquitously applied. To assist applicants on what might be appropriate to their specific applications, and to assist authorities in assessing this appropriateness, ICAO has developed the Environmental Technical Manual (ETM). Like Annex 16 itself, the ETM has undergone several revisions since it was first approved for publication by the ICAO Council in 1987. The CAEP noise technical working group (WG1) periodically publishes these revisions as "Steering Group Approved Revisions"(SGAR), previously "Working Group Approved Revisions". The most recent CAEP meeting approved SGAR/8 of the ETM. Less frequently ICAO itself publishes Doc. 9501, based on the then current Working Group's revision. The third edition of Doc.9501, based on SGAR/8, will be published soon.

1.3        The stated aim of the ETM is "to promote uniformity of implementation of the technical procedures of Annex 16, Volume I….so that all certificating authorities can apply the same degree of stringency and the same criteria in accepting and approving applications for the use of equivalent procedures".

1.4        The presentation is not intended to go into the ETM in any detail. Rather it shows what can be found in the ETM and includes an introduction to "re-certification".

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