



Noise Certification Workshop

Rio de Janeiro, Brazil

9 August 2005

The ICAO noise certification workshop is being held in conjunction with the InterNoise 2005 Congress which is a well known event in the field of aircraft noise. This workshop will provide a good opportunity for authorities/States located in South and Central America to get acquainted with the latest developments in aircraft noise certification. The meeting is aimed at those involved in or with specific interest in, aircraft noise certification activities and will be held at:

Venue: COPACABANA PRAIA HOTEL
Rua Francisco Otaviano n° 30
Copacabana
RIO DE JANEIRO - RJ
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The environmental aspects of aviation, in particular aircraft noise, continue to attract the attention of both the aviation community and the general public. The first international Standards and procedures for aircraft noise certification were developed by ICAO in the early 1970s and they have evolved substantially since then. These noise Standards and procedures are reflected in Annex 16 — *Environmental Protection, Volume I — Aircraft Noise* and the *Environmental Technical Manual on the use of Procedures in the Noise Certification of Aircraft* (Doc 9501).

In February 2004, the sixth meeting of the Council's Committee on Aviation Environmental Protection (CAEP/6) made substantive recommendations in the area of aircraft noise certification and re-certification that have since been considered by the Council.

Against this background, the Council has agreed that noise certification workshops should be conducted to assist States. Their objectives will be to:

- a) enhance States' certifying authorities' awareness of the current Standards and Recommended Practices (SARPs) and associated guidance material related to aircraft noise certification and re-certification for transport aircraft (including subsonic jets and propeller-driven aeroplanes), helicopters and light propeller-driven aeroplanes;
- b) promote harmonization of procedures for the noise certification and re-certification of aircraft; and
- c) familiarize States with the work of the CAEP in this area, and provide information on the recommendations from CAEP/6, including:
 - new guidance on noise certification documentation;
 - re-certification within Annex 16, Volume I (for example from Chapter 2 to Chapter 3; from Chapter 2 to 4; and from Chapter 3 or 5 to Chapter 4), as well as from the Federal Aviation Administration's FAR 36, Stage 3 to Annex 16, Volume I, Chapter 4; and
 - provisions for thrust de-rate.

Workshop topics

A preliminary programme for the workshop appears follows and has been structured to provide:

- a) a general understanding of aircraft noise certification and re-certification;
- b) an explanation of ICAO's existing SARPs and guidance on the subject;
- c) information on the most common difficulties encountered in the interpretation and implementation of existing provisions;
- d) information on CAEP's future work programme related to this topic; and
- e) identification of the principal factors that are likely to be of relevance in the years ahead.

Workshop format

The workshop is intended for those interested in noise certification and re-certification, and in particular to experts in charge of aircraft noise certification in national civil aviation administrations, as well as experts responsible for clearing airworthiness aspects before aircraft are included in the national aviation register.

Each topic and, where appropriate, each sub-topic will commence with one or more prepared presentations by speakers who are knowledgeable on the subject concerned. The opportunity will be provided for participants to comment or pose questions to the speakers.

Organizational arrangements

The working language will be English.

Experts nominated by their aviation authority are entitled to attend the ICAO noise certification workshop free of charge and should use the registration form (follow menu link). Please note that participants wishing to attend other sessions of InterNoise 2005 Congress, will need to register for that meeting and will be charged the congress fees.

Registration forms can be found at
(<http://www.internoise2005.org.br/welcome.aspx>)

A list of representative hotels and apartment hotels within reasonable distance from the event can also be found at the InterNoise 2005 website.

Further information

An copy of the programme for the workshop as well as other organizational arrangements such as registration and meeting documentation will be placed on the ICAO website (www.icao.int) in due course.

NOISE CERTIFICATION WORKSHOP

Workshop Chairman:

- Mr. Alain DEPITRE
Head of Noise Certification Bureau, Direction Générale de l'Aviation Civile (DGAC),
France

Speakers

- Mrs : Jane HUPE
Secretary of Committee on Aviation Environmental Protection (CAEP), International
Civil Aviation Organization, (ICAO)
- Mr. Pierre LEMPEREUR
Senior Expert, Acoustics and Environment
Airbus France/ICCAIA
- Mr. Jean-Baptiste RIGAUDIAS
Director Environmental Affairs, Air France/IATA
- Mr.. Mehmet MARSAN
Noise Division, Office of Environment and Energy, FAA (US)

AGENDA

Tuesday, 9 August 2005

- 08:00 - 08:20 **OPENING ADDRESSES**
Speakers: Jane HUPE, ICAO/CAEP
 Alain DEPITRE, DGCA, France
- 08:20 - 08:40 **HISTORIC PERSPECTIVE**
Speaker: Jane HUPE, ICAO/CAEP
- 08:40 - 09:30 **DESCRIPTION OF ANNEX 16:**
Chapters and appendices with more details on chapter 3
Speaker: Alain DEPITRE, DGAC, France
- 09.30 – 10.00 **AIRCRAFT NOISE MEASUREMENT UNIT - EPNdB**
Why work with this unit, technical description, equivalent
procedures and the Environmental Technical Manual - ETM
Speaker: Mehmet MARSAN, FAA, US
- 10:00 - 10:30 Coffee break
- 10.30 – 11.00 **AIRCRAFT NOISE MEASUREMENT UNIT - EPNdB**
Why work with this unit, technical description, equivalent
procedures and the Environmental Technical Manual - ETM
Speaker: Mehmet MARSAN, FAA, US
- 11:00 - 11:30 **NOISE CERTIFICATION DOCUMENTATION**
Roles and responsibilities
Speakers: Alain DEPITRE, DGAC, France
 Mehmet MARSAN, FAA, US
- 11:30 - 12:00 **HARMONIZATION**
Speaker: Mehmet MARSAN, FAA, US
- 12:00 - 13:30 Lunch
- 13:30 - 14:00 **RECERTIFICATION**
Speaker: Alain DEPITRE, DGCA, France
- 14:00 - 14:20 **The point of view of Aircraft Manufacturers**
Speaker: Pierre LEMPEREUR, ICCAIA
- 14.20 – 14.40 **The point of view of Airlines**
Speaker: Jean RIGAUDIAS, IATA
- 14.40 – 15.15 **New challenges**
Speaker: Jane HUPE, ICAO/CAEP
Demonstration of the Noise Database
Speakers: Alain DEPITRE, DGCA, France
 Jane HUPE, ICAO/CAEP
- 15:15 - 15:30 **Conclusion**
Speaker: Jane HUPE, ICAO/CAEP