

SUMMARY OF CAEP/8 MEETING

The eighth meeting of the International Civil Aviation Organization's (ICAO) Committee on Aviation Environmental Protection (CAEP/8) was held February 1 – 12, 2010 in Montreal.¹ The major outcomes are noted below.

- NO_x Stringency Increase – Based upon analysis conducted during the CAEP/8 cycle, the meeting decided upon a stringency increase to the engine certification standard for NO_x emissions of 15% below CAEP/6 levels, at a slope of 2.0. The new stringency will apply to the certification of new type design engines beginning on December 31, 2013, with an assurance that no production cutoff will be applied before year-end 2018. The meeting also adopted a production cutoff for engines not meeting the CAEP/6 NO_x standard, effective December 31, 2012.

WORK PROGRAM FOR CAEP/9 (2013)

- Development of CO₂ Standard – Work on a first-of-its-kind aircraft certification standard for CO₂ emissions will begin immediately in CAEP Working Group 3, and has been designated as CAEP's highest priority activity during the CAEP/9 cycle. Key elements will include: (1) development of an appropriate metric based on fuel efficiency, (2) development of certification requirements, (3) assessment of how a standard might apply to future aircraft types and, potentially, to new in-production aircraft, and (4) development of regulatory levels for environmental and economic analysis. The target date for a decision on a CO₂ standard is CAEP/9, but there was general recognition that the task might take somewhat longer.
- Noise Stringency Analysis – Preparatory work on a potential stringency increase to the aircraft certification standard for noise will be carried out by CAEP Working Group 1, the Forecasting and Economic Analysis Support Group (FESG) and the Modeling and Databases Group (MGD) during the CAEP/9 cycle, with a stringency increase at CAEP/9 neither required nor precluded. The analysis will include options up to 12dB below the Chapter 4 standard, with an effective date of either 2017 or 2020.

¹ The CAEP meets on a 3-year cycle, in the year of the triennial ICAO Assembly meeting. To provide direction to the working groups on the Work Program deliverables during the CAEP cycle, the committee meets three times during the cycle as a Steering Group. The CAEP consists of representatives of the following 22 countries: Argentina, Australia, Brazil, Canada, China, Egypt, France, Germany, India, Italy, Japan, Netherlands, Poland, Russian Federation, Singapore, South Africa, Spain, Sweden, Switzerland, Tunisia, United Kingdom, and United States.