

Executive Summary

Real-World APU Engine Emissions at Airports

Results of a Workshop

held in Erding (Munich), Germany, on April 5, 2007



The twenty-five participants to this workshop represented a wide range of expertise from the atmospheric science, airline operators, air traffic management, airframe and aero-engine manufacturers and research establishments. During the final plenary session, the following issues were discussed in length by this comprehensive panel:

- Emission inventories and airport air quality assessment. Which level of reliability do we achieve? Can things be improved?
- Can real-world data be used to improve inventories and reduce emissions? What would it mean in practice? What would it really bring?
- What is the state of the art in term of APU research and development? How much do we really know about the APU emissions? What should be done?

After a rich debate, the panel reached the conclusion that measurement methodology standards for APU emissions need to be improved and that a reference certification cycle for APU operation (in the spirit of the LTO reference certification cycle) need to be defined and acknowledge internationally.

Such standards would be extremely useful to the APU industry to evaluate and improve its products and contribute positively to the airports air quality.

It was agreed then that AERONET would study these standard issues and come up with proposals during a dedicated AERONET expert to take place during fall 2007. This would be an interesting contribution to the work carried out by the TG4 group.