



Balanced Approach to Aircraft Noise Management

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- Balanced Approach to Aircraft Noise Management
 - Rationale (Why it was developed).
 - Objectives (What it aims to achieve).
 - Concept & elements (How it works).

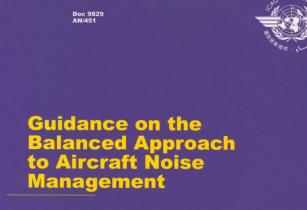


 Problems with aircraft noise have led to operational limitations and opposition to

 Uncoordinated policy developments to address aircraft noise could hinder the economical operation of air transport.

airport expansion/construction.

 Guidance document was published in 2004 (Doc 9829 AN/451) and revised in 2007.



roved by the Secretary Genera published under his authority

International Civil Aviation Organization

First Edition - 2004









- Address aircraft noise problems at individual airports in an environmentally responsive and economically responsible way.
- Achieve maximum environmental benefit most cost-effectively.
- Recognize that States may already have noise regulations and policies in place.





- Follows comparative economic analysis based on "best practice" cost benefit analysis techniques
- To achieve maximum environmental benefit in the most cost-effective manner.
- Combinations of measures can be necessary to achieve noise objectives.
- Interdependencies must be taken into account:
 - Between different element;
 - Between noise and emissions.





Concept & Elements

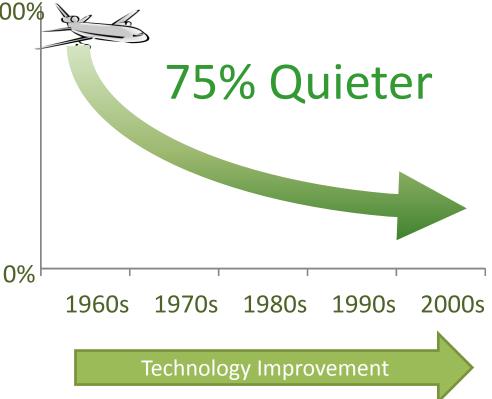


ENVIRONMENT

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Reduction of noise at source

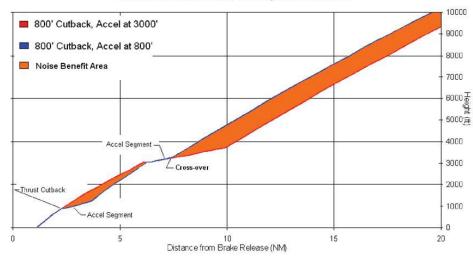
- Manufacturers' new technologies have produced significant noise 100% reductions.
- Noise certification is based on aircraft performance (airframe + engine).
- ICAO Annex 16, Volume I contains the aircraft noise Standards.
- Environmental Technical Manual (Doc 9501) contains the procedures for noise certification of aircraft.





ICAO ENVIRONMENT Noise Abatement Operational Procedures

- Aimed at reduction and/or redistribution of noise around the airport.
- Enable full use of modern aircraft capabilities.
- Potentially a cost effective measure.



Noise Benefits Associated With Departure Procedure





- Defined as any noise-related action that limits or reduces an aircraft's access to an airport.
- Not to be used as a first resort, only after consideration of benefits gained from the other three elements.
- Examples:
 - Movement caps;
 - Noise quotas;
 - Non-addition rules;
 - Curfews.





- Planning (zoning, easement, etc.).
- Mitigation (building codes, insulation, real estate disclosure, etc.).
- Financial (tax incentives, charges, etc.).
- Key to protecting noise reduction and abatement benefits.
- May involve "opportunity costs" for airports/local government.









• Should be levied only at airports experiencing noise problems.

• Should recover no more than the costs incurred.

• Doc 9082 - ICAO's Policies on Charges for Airports and Air Navigation Services.





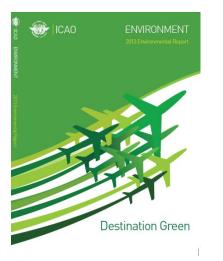
A sustainable approach is crucial...

- Combining the principal elements of the ICAO Balanced Approach may be necessary to improve the noise climate in the vicinity of airports.
- ICAO encourages the benefits to be safeguarded by accounting for sustainability of airport growth.
- ICAO's role is to provide a global forum to develop a commonly-agreed solution among member States:
 - Consists of a variety of measures to address all aspects of aviation and environmental protection in a harmonized and balanced manner.





For more information on ICAO activities on Aircraft Noise...



ICAO Web Page www.icao.int/

THANK YOU



