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ATM R&D Project Synopses - *EUR244 5A - Attitudes to Aircraft Annoyance Around Airports*



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Name: **5A - Attitudes to Aircraft Annoyance Around Airports** **EUR244**

Reference: EUR244
Internal code: ENV-Z-5A

Duration: Jan 2002 - Jun 2005

Objectives: The benefits of growth and development of the air transport industry can be felt across wide geographic areas in Europe, however the adverse effects of airport operations are primarily borne by the local environment and residents of neighboring communities situated close to aircraft approach and departure routes.

The general idea of this project would be to try to better understand "annoyance" of local residents around airports across Europe by defining and attributing a value to the factors responsible for a deterioration of the quality of life for these households. These factors include noise, local air quality, increased road traffic, etc. For this, a pilot project will be conducted consisting of attitude surveys undertaken around three European airports to determine whether differences in attitude are apparent. Analysis surveys results should allow better identification of the factors responsible for annoyance The responses given are likely to be very varied depending on the affluence, life-style and cultural differences that affect perceptions of disturbance or annoyance arising from aircraft noise in different communities of Europe. These attitude surveys will make major use of stated-preference techniques and focus groups. Calculated values of, for example, noise impact will be correlated with values of annoyance collected by attitude survey techniques. Through experimenting with the way noise impact is calculated (noise metrics), better correlation will be sought.

A more thorough study is planned for the future, once lesson learned from the pilot study have been taken on board.

Approach: For this, a pilot project will be conducted consisting of attitude surveys undertaken around three European airports to determine whether differences in attitude are apparent. Analysis surveys results should allow better identification of the factors responsible for annoyance The responses given are likely to be very varied depending on the affluence, life-style and cultural differences that affect perceptions of disturbance or annoyance arising from aircraft noise in different communities of Europe. These attitude surveys will make major use of stated-preference techniques and focus groups.

Expected Results:

Surveys results should allow better identification of the factors responsible for annoyance.
Through experimenting with new noise and emission metrics, better correlation will be sought between these and real annoyance.
A more thorough study is planned for the future, once lesson learned from the pilot study have been taken on board.

Validation Levels:

Current: N/A
Target: N/A

Deliverables:**Type**

<u>Name / Reference</u>	<u>Date</u>	<u>Public</u> ?
ASP Assessments of performance, operational suitability, safety, CBA		
■ Preliminary global aviation annoyance indices / Ref:EEC	06/2003	Y
■ Report on preliminary Aviation Annoyance Analysis	12/2004	Y
MOD Models, algorithms, methods, processes, architectures		
■ Ambient Noise Model / Ref:EEC	12/2002	Y
RDIR&D Infrastructure		
■ Survey Tool / Ref:EEC	12/2002	Y

Responsible organisation:

EUROCONTROL - European Org. for the Safety of Air Nav.

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Partners:

1 EUROCONTROL EEC Bretigny/France

Sponsoring 2002:

100% EUROCONTROL

Domains 2002:

100% ENV/NOIS - Noise

Horizontal Issues 2002:

100% Miscellaneous research topics

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