Noise Certification Workshop

ICAO NOISE CERTIFICATION DATABASE

Alain DEPITRE DGAC - France

ICAO NOISE CERTIFICATION DATABASE

☀ PURPOSE OF THE PROJECT
  - The goal
  - Historic

☀ ORGANIZATION OF THE PROJECT

☀ DESCRIPTION
  - Content :data input

☀ ANALYSE
  - Noise database composition

☀ DEMONSTRATION IN REAL TIME

Purpose of the project

☀ The goal

➤ The goal of this database is to provide certification noise levels for each aircraft type and model.

➤ The noisedB application is intended as a general source of information for the public, accessible by internet site.

➤ All data are certified by the International Certification Authorities.

Purpose of the project

● **Historic**

☞   This noise database has been requested by some civil aviation authorities at CAEP4 meeting (April 1998).

☞   This database has been realised under the umbrella body of the International Civil Aviation Organization (ICAO).

☞   French DGAC was appointed to create this database.

Organization of the project

ICAO

French DGAC

Aircraft manufacturers

Certification authorities

Description

Data input

An exact format of the required data has been sent to all manufacturers concerned.

This database connects noise levels with parameters associated as engine parameters, regulation parameters for each aircraft model.

Description

☀ Data input

AIRFRAME PARAMETERS						
Manufacturer	Type	Version	Modification n°	MTOW	MLW	SLATS/FLAPS
Name	Aircraft	Aircraft	Aircraft	Kgs	Kgs	° APP/TO

ENGINE PARAMETERS					
ENGINE	Number	NACELLE / PROPELLER	MODIFICATION		THRUST	BPR
Type		Type	N°	Description	kN	

Description

* Data input

REGULATION PARAMETERS					

Regulation	Chapter / Stage	Certification /	Dossier		Certif DATE	Notes
Apply	Number	Authority	N°	Issue		

NOISE LEVELS (EPNdB)

FLYOVER			SIDELINE			APPROACH			CUMULATIVE		
FO	limit	Margin	SL	limit	Margin	APP	limit	Margin	Level	limit	Margin

Description

☀ The NOISEdB contents
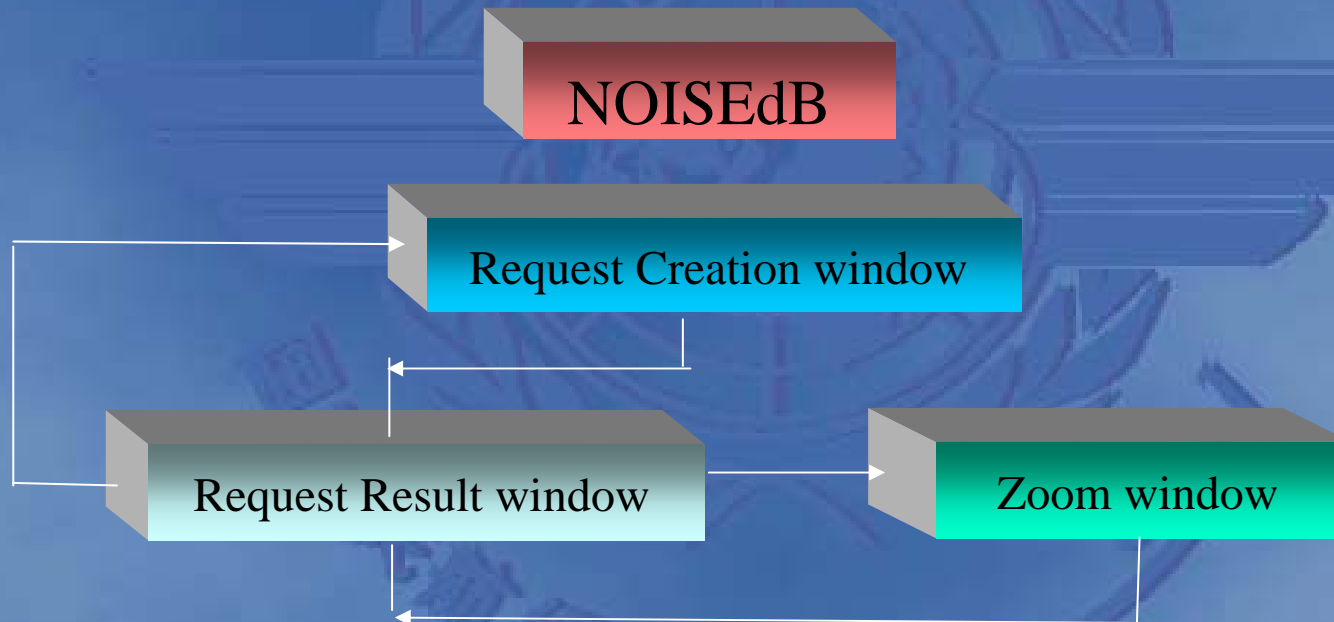
Analyse

* <u>Noise database composition</u>

  * **Manufacturers send their noise data to French DGAC certification authority.**

  * **French DGAC send data to each certification authority concerned for validation.**

  * **After validation return to french DGAC.**

  * **Insertion on internet site of noise data after validation of updates by ICAO / CAEP – WG1.**

Noise dB administrator

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NoisedB access

☀ Address: www.icao.int

➢ environmental protection

➢ Aircraft noise

➢ Link: Noise dB

Thank you