

5.C NOISE AND COMPATIBLE LAND USES

The discussion of the affected environment for noise and compatible land uses describes the existing noise exposure on communities surrounding Fort Lauderdale-Hollywood International Airport (FLL) and the land uses that could be affected by the development of the Airport Sponsor's Proposed Project or any of its alternatives. The noise analysis describes the noise exposure for the Environmental Impact Statement (EIS) existing conditions base year – 2005. Aircraft-related noise exposure is defined through noise contours prepared using the FAA Integrated Noise Model (INM). This noise exposure is presented using the Day-Night Average Sound Level (DNL) metric.

An explanation of the INM and the DNL metric, along with a review of the physics of noise, noise impacts on humans, social impacts of noise, and the data required to develop noise exposure contours, is summarized in Section 5.C.1, *Noise*. The noise analyses were conducted in accordance with FAA Order 1050.1E, *Environmental Impacts: Policies and Procedures*, and Order 5050.4B, *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions*.

Federal Aviation Regulations (FAR) 14 Code of Federal Regulations (CFR) Part 150¹ and the 1992 Federal Interagency Committee on Noise Report (FICON)² were used to define and categorize compatible land uses in the Study Area. Section 5.C.2, *Land Use Compatibility*, describes the existing land use patterns, noise-sensitive public facilities, local comprehensive plans, and applicable zoning regulations for those jurisdictions within the Study Area.

Section 5.C.3 addresses the *Part 150 Noise Compatibility Study Update* currently being conducted by Broward County.

Section 5.C.4, *Interlocal Agreements and Development Orders*, discusses the interlocal agreements between Broward County and the City of Dania Beach and the City of Fort Lauderdale; and local development orders (adopted by Broward County, the cities of Hollywood and Fort Lauderdale, pursuant to Chapter 380, Florida Statutes, *Developments of Regional Impact*).

¹ *Federal Aviation Regulations Part 150 Airport Noise Compatibility Planning*, Appendix A, Table 1.

² The Committee, composed of representatives of the Departments of Transportation (Office of the Secretary and the Federal Aviation Administration), Defense, Justice, Veterans Affairs, Housing and Urban Development; the Environmental Protection Agency; and the Council on Environmental Quality, was chartered to review specific elements of Federal agency procedures for the assessment of airport noise impacts and to make appropriate recommendations. *Federal Agency Review of Selected Airport Noise Analysis Issues*, FICON, August 1992.

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