

6.C NOISE AND COMPATIBLE LAND USES

The discussion of the environmental consequences for noise and compatible land uses describes the 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 presents the noise exposure for the Environmental Impact Study (EIS) future years – 2012 and 2020. 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 Chapter Five, Section 5.C.1, *Noise*. The noise analyses were conducted in accordance with FAA Order 1050.1E, Change 1, *Environmental Impacts: Policies and Procedures*, dated March 20, 2006; and Order 5050.4B, *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions*.

14 Code of Federal Regulations (CFR) Part 150¹ and the 1992 Federal Interagency Committee on Noise Report (FICON²) were used to define and categorize compatible land uses in the Study Area. The existing land uses are described in terms of general land use patterns, land use plans, and land use controls (zoning and building codes) in subsection 6.C.2, *Land Use Compatibility*.

¹ *Federal Aviation Regulations (FAR) Part 150 Airport Noise Compatibility Planning*, Appendix A, Table 1. See Table C-1, Appendix C.

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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