







Planning Department

Petition PB-13-65 TCH

City Commission November 21, 2013

(Legistar No. 130432) Prepared by: Ralph Hilliard



Airport Hazard Zoning

- Purpose:
- Protect the safety and welfare of citizens through land development regulations that will reduce the potential land use conflicts with airport operations.
- Protect the airport from incompatible land uses that may hamper the future growth and expansion of airport operations.



GAINE VILLE (FAA) Federal Aviation **Administration Guidelines**

- Identifies DNL 65 as the upper limit for residential development
- •FAA determinations under Part 150 are not intended to substitute federally determined land uses for those determine to be appropriate by the local government



GAINE VILLE Current Regulations Courrent Regulations

Subzone	A DNL 65	B DNL 65 - 60	C DNL 60 - 55
Dwellings	Prohibited	Restricted (1)	Permitted (2)
Assembly Uses	Prohibited	Restricted (1)	Permitted (2)
Hospital	Prohibited	Prohibited	Permitted (2)
Nursing Homes	Prohibited	Restricted (1)	Permitted (2)
Public and Private Schools	Prohibited	Restricted (1)	Permitted (2)



Restrictions

 (1) Development shall be allowed only on isolated lots within neighborhoods or developments that were constructed prior to December 3, 2009 (i.e., "infill development lots.") Any such development that is allowed shall provide a minimum of 25 dB of exteriorto-interior noise level reduction and the property owner shall provide the City and the Gainesville Regional Airport with a permanent avigation easement in accordance with (g) below.



(2) All development shall provide a minimum of 25dB of exterior-to-interior noise level reduction and the property owner shall provide the City and the Gainesville Regional Airport with a permanent avigation easement in accordance with (g) below.



Background

Background/History

- Gainesville-Alachua County Regional Airport Authority: Updated Airport Master Plan 2006
- Proposed Land Use Change Hatchet Creek 2007
- Existing Airport Noise Zone Maps out-of-date
- New Noise Exposure Maps accepted by FAA 2009
- Plan Board recommends approval of new regulations 2009
- City Commission adopts new regulations 2009



Justification

Impacts of Noise:

 Speech and sleep interferences are major concerns of neighbors close to airports

 Noise will impact residents of a community more in the evening and at night than during the day



Season. Noise is considered more disturbing in the summer than in the winter. This is understandable since, during the summer, windows are likely to be open and recreational activities take place out of doors.



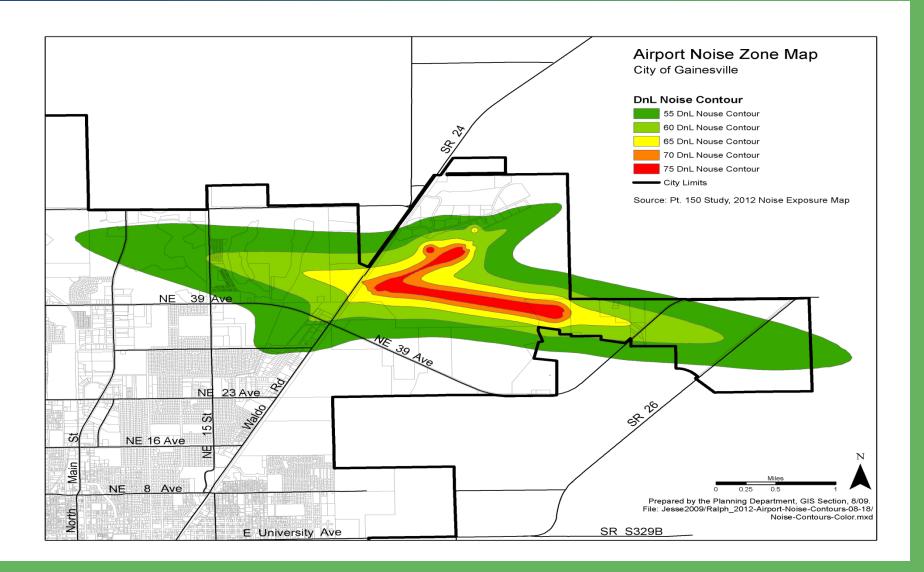
- Best Practices
- The US Environmental Protection Agency (EPA, 1974) recommended the DNL metric and 55 dB as the "level requisite to protect health and welfare with an adequate margin of safety".



 All major international bodies including the World Health Organization, the World Bank Group, and the Organization for Economic Cooperation and Development use the equivalent of DNL 55 dB as their criterion.

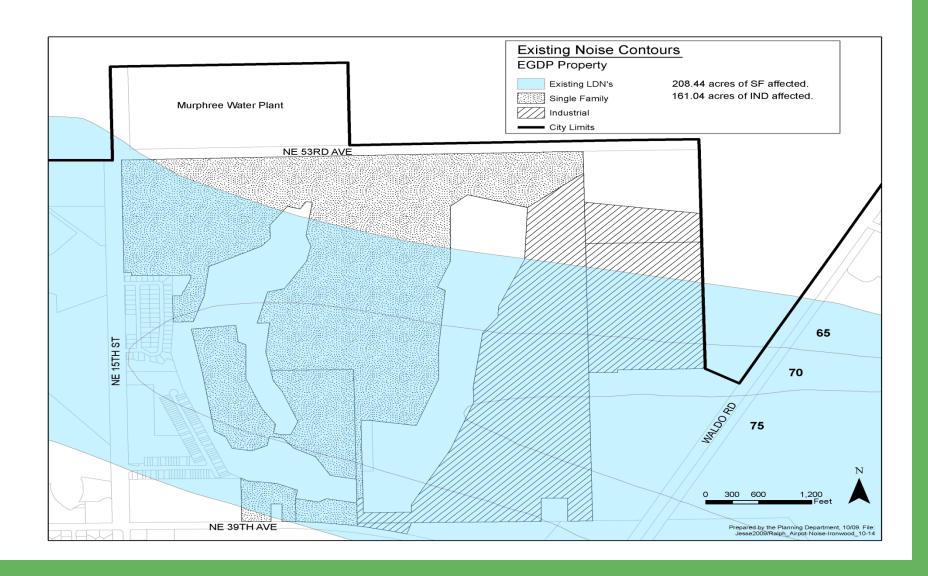


GAINE VILLE Airport Noise Zone 2009



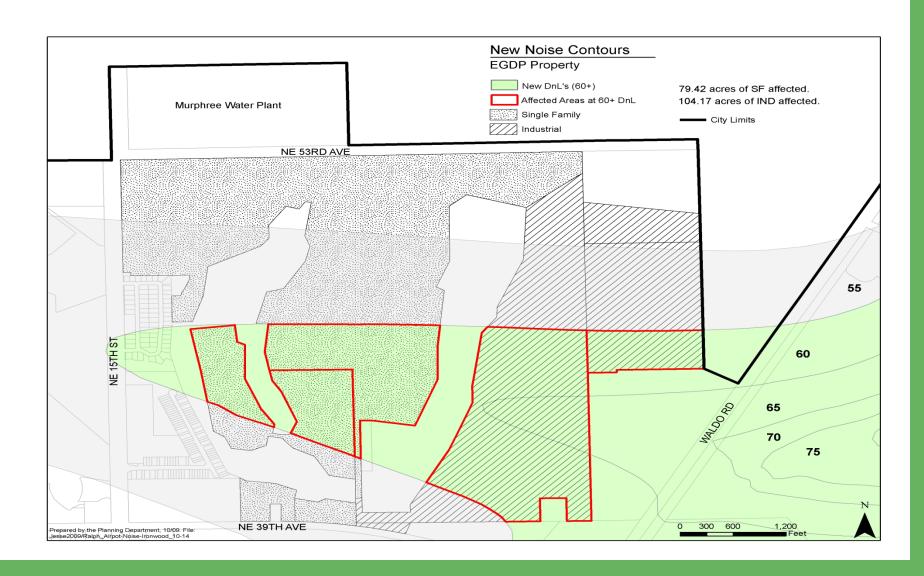


GAINE VILLE Airport Noise Zone Pre-2009





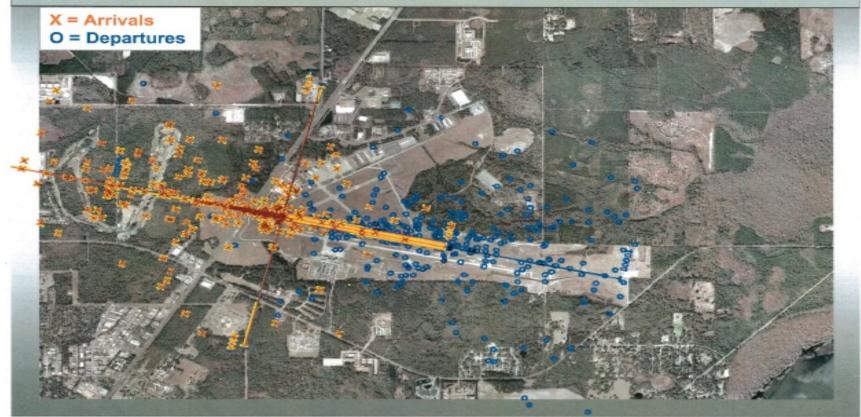
GAINE VILLE Change in Noise Zone





General Aviation Aircraft Accident Location Patterns Runway 11 – East Flow

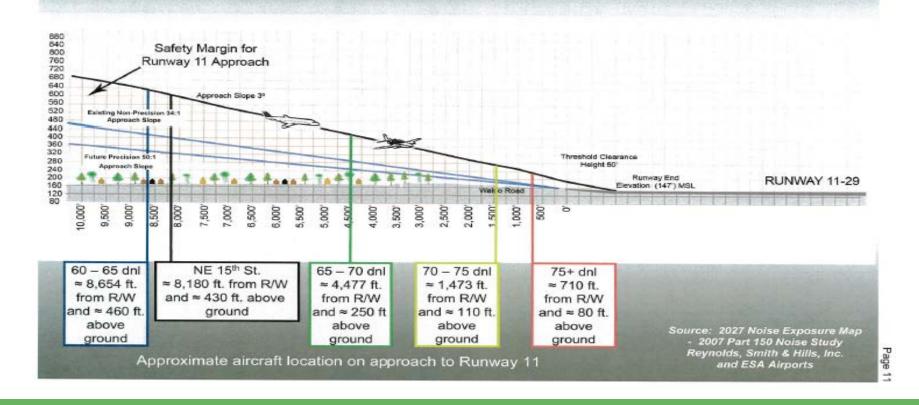
Source: California Airport Land Use Planning Handbook (January 2002): Institute of Transportation Studies at the University of California, Berkeley





GAINE VILLE Approach Profile

Gainesville Regional Airport Runway 11 Approach Profile





Recommendation Recommendation

Deny Petition PB-13-65 TCH