

AIRPORT NOISE AND LAND USE COMPATIBILITY

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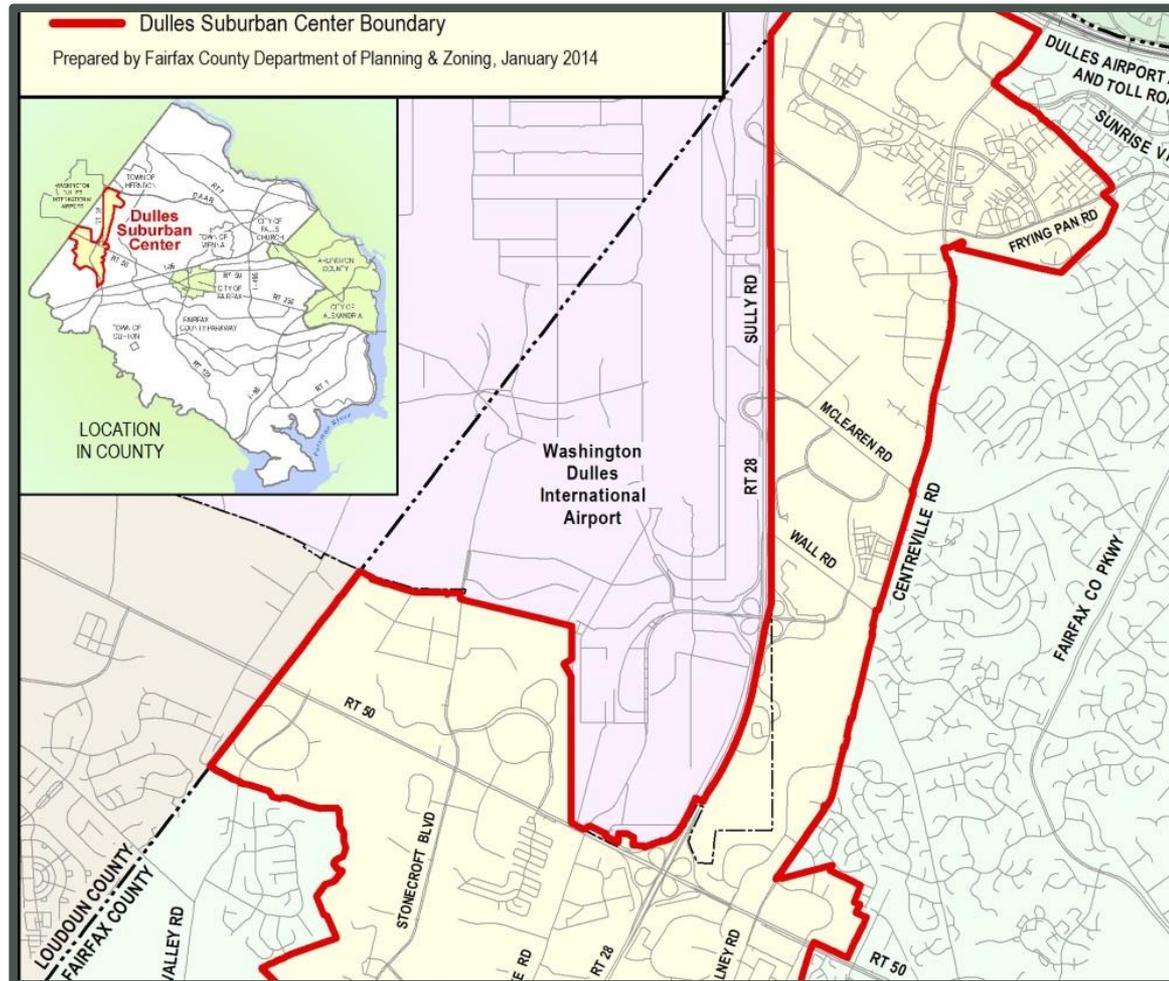
Planning Division

Fairfax County Department of Planning & Zoning

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Washington Dulles International Airport



Measuring Noise

- The human ear is not equally sensitive to sounds.
- The Decibel Scale
 - Zero Decibel: the quietest sound audible to healthy human ear.
 - Every 3 Decibels: represents a doubling of sound intensity.
 - 60 dBA: Air Conditioning Unit from 100 feet away
 - 70 dBA: Vacuum Cleaner
 - 80 dBA: Garbage Disposal
 - 150 dBA: Jet Take off from 25 meter

Airports Advisory Committee Study

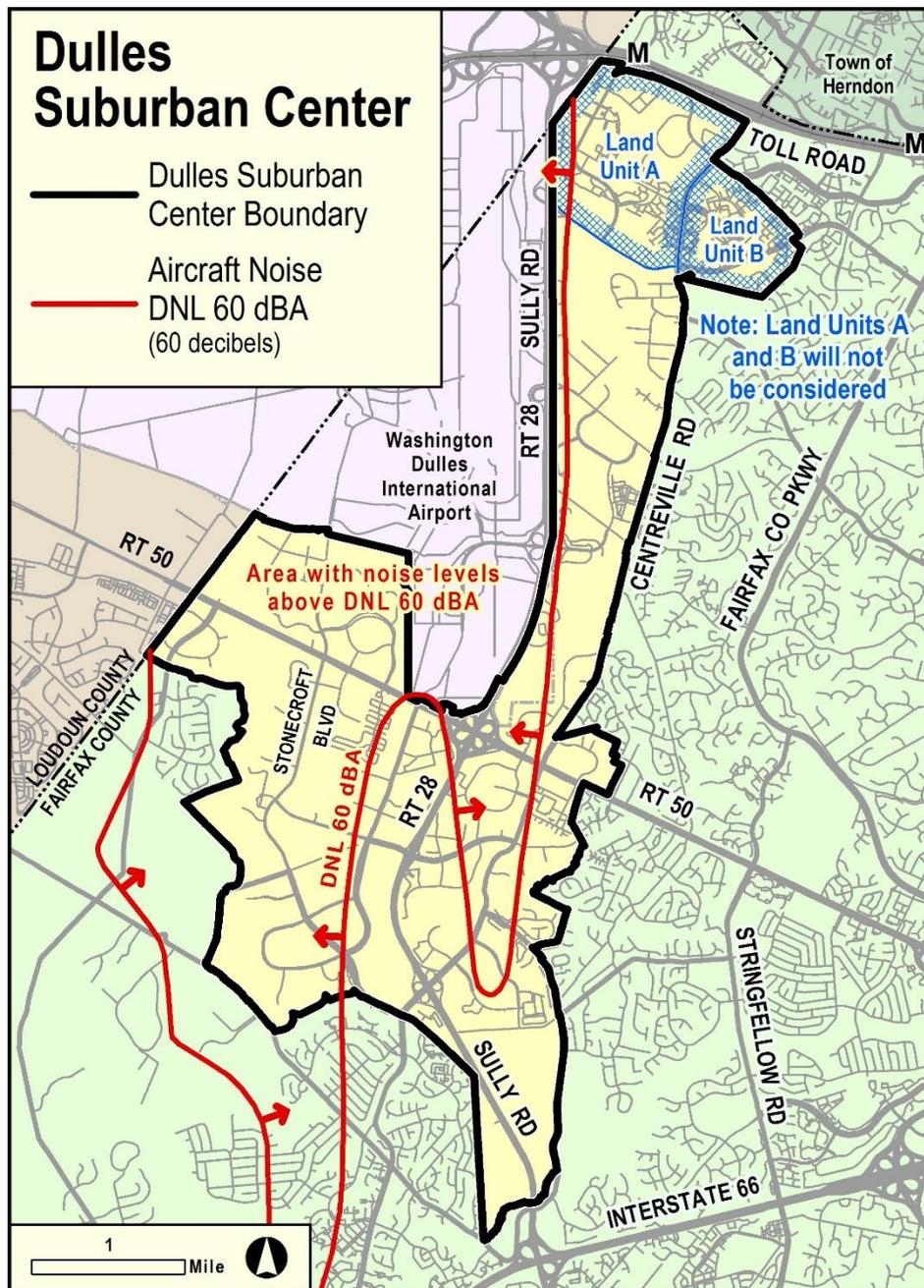
Recommended against residential development within the 60 dBA contour.

Dulles Airport Noise Contour Study Committee

Recommended that the Countywide Policy Plan recommend against residential zoning within the 60 dBA contour

Aircraft Noise DNL 60 dBA

- Adopted in Comprehensive Plan in March 1997
- Recommends against new residential development
- Assumes airport is approaching design capacity.
- Assumes all 5 runways are operational.



Loudoun County Zoning Ordinance Airport Impact Overlay District

Within 65 LDN

- No residential development

Between 60 LDN and 65 LDN

- Full disclosure statements
- Acoustical treatment for interior residential space to average 45 decibels
- Avigation easements

1-Mile Buffer outside of 60 LDN

- Full disclosure statements

Questions



LAND USE



HOUSING



PUBLIC FACILITIES



ENVIRONMENT



HUMAN SERVICES



REVITALIZATION



ECONOMIC DEVELOPMENT



CHESAPEAKE BAY



TRANSPORTATION



VISUAL AND PERFORMING ARTS

