

## Overview of Noise Management





**Van Nuys**  
*Los Angeles World Airports*

**Briefing for the VNY Citizens Advisory Council**  
 June 4, 2013




## Noise Management Functions

- Reduce Aircraft Noise in the Residential Communities Adjacent to the Airport
- Evaluate Aircraft Noise Impacts and Report to the County and State
- Implement Noise Mitigation Programs and procedures
- Monitor and Abate Noise at Van Nuys Airport
- Provide Meaningful Information to the Public
- Achieve Effective Noise Reduction at the Source Through Ongoing Pilot Education and Counseling



## Evaluate and Report Noise Impacts

- California regulation CCR Title 21: California Airport Noise Standards
- 14 Noise Monitors Positioned Around VNY Collect Data 24 hrs. Per Day, 365 Days Per Year
- Obtain Radar Operations Information From FAA
- Correlate Monitored Noise Levels With Operations
- ANOMS Monitoring System approved by State of California, monitor locations established to accurately measure and depict size of 65 CNEL contour
- Produce maps and reports



## Noise Monitoring Station




Photos by Karol Hanzl

## Evaluate and Report Noise Impact

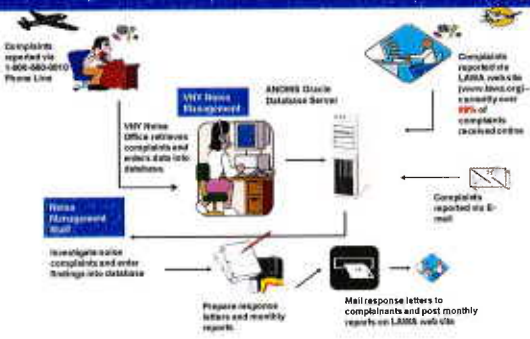
- Produce Quarterly Noise Monitoring Report
  - Integrated Noise Model (INM)
    - predicts aircraft noise based on real aircraft operations (radar flight track data)
  - GIS
    - produce map showing 65 dB CNEL noise contour as determined using base INM contours adjusted to actual noise levels measured at permanent microphones
    - determine incompatible land use within noise impact area



## Examples of Sound Levels



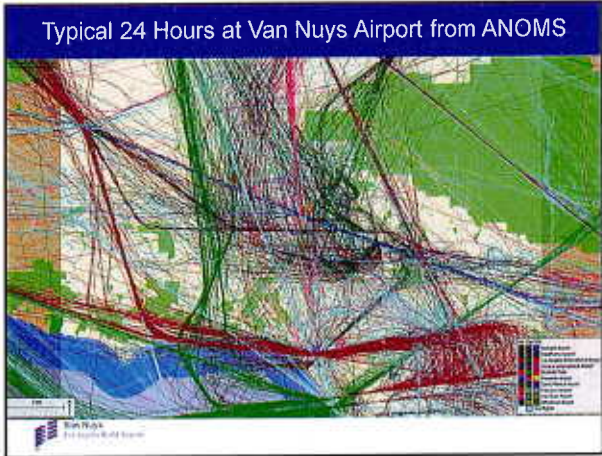
## Noise Complaint Process






## Implement Noise Mitigation Programs

- Quieter Operations
  - In-flight operational procedures (in cooperation with FAA)
  - Airport use restrictions (maintenance, taxiing)
- Quieter Aircraft
  - Noisier Jet Phase-Out
  - QDP and No-Early-Turn Noise Mitigation Programs
  - Other Local Ordinances





- ### Operations Restrictions
- VNY Informal Noise Abatement Procedures (Implemented by the FAA)
    - Preferential runway use
    - In-flight procedures
      - "Early turns", "Short turns"
      - Altitude restrictions on arrivals and departures
      - Flight track routes
  - VNY Operational Noise Ordinances
    - Curfew on Nighttime Departures over 74 dB (per AC36)
    - Non-Addition Rule
  - Maintenance restrictions (Implemented by LAWA)
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- ### Monitoring Compliance
- VNY In-Flight Procedures and Formal Restrictions
    - Quiet Jet Departure Program
    - Early Turn Program
    - Helicopter Route and Altitude Deviation Program
    - Early Turns on Departure to the South
    - Residential Soundproofing
    - Noise and Complaint Monitoring
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**Information to Public**

- Respond to Noise Complaints
  - Maintain noise complaint database
  - Provide meaningful responses to complainants
  - Produce Monthly Summary Reports
- Provide data or information as requested by
  - LAWA management and staff; aircraft operators; local, state and federal agencies; current and prospective airport-area residents; etc.

20th Flight  
Air Route 1000 Report

**Information to Public**

- VNY Noise Management Website at [http://www.lawa.org/welcome\\_VNY.aspx?id=1034](http://www.lawa.org/welcome_VNY.aspx?id=1034)
  - Live Flight Tracking System
  - Noise Complaint Form
  - Noise Complaint Monthly Report
  - Noise Contour Maps

20th Flight  
Air Route 1000 Report

