Overview of Noise Management

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 Muhly
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, taxing)

- Quieter Aircraft
  - Noisier Jet Phase-Out
  - GOP 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)

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

New Fleet Mix: Hawker 950XP Stage 4 Compliant
In With the New: Embraer Phenom 100

Out with the Old: Gulfstream G-III

Photo by Trace Minow

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.

Information to Public

  - Live Flight Tracking System
  - Noise Complaint Form
  - Noise Complaint Monthly Report
  - Noise Contour Maps