

Fly Friendly Target Noise Level Background

- LAWA initiated in 1994
 - Aircraft-specific departure SENEL targets for monitor V7 (now VNY13)
 - Approximately 14,000 feet from Runway 16R brake release
- Operators receive letter from airport manager for exceedances
- Purely voluntary program



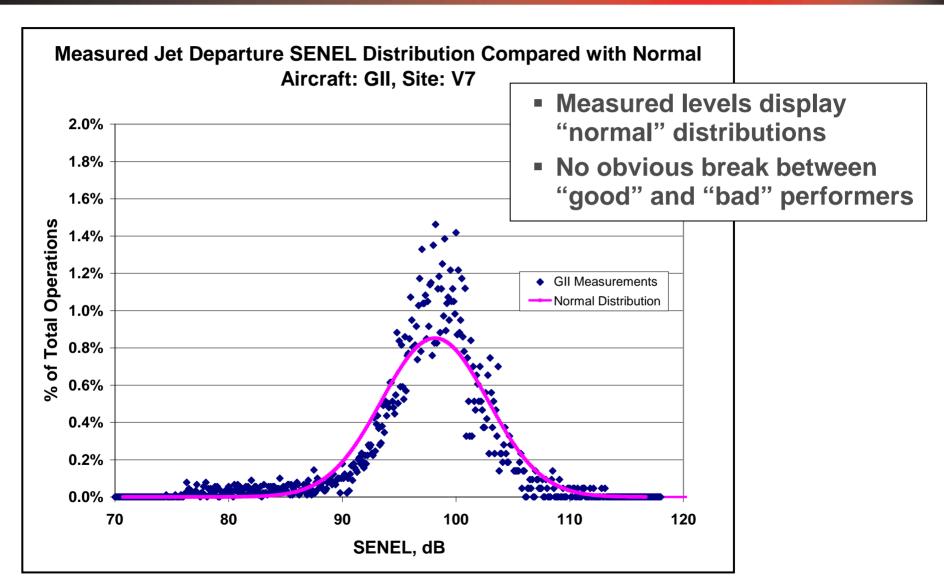


Establishment of Original Fly Friendly Targets - 1994

- Targets were set by averaging the arithmetic mean of:
 - Measured SENEL departure levels for the given aircraft type
 - Integrated Noise Model SENEL estimate
- The original monitoring system was relatively new
 - Limited measurement data were available
 - Fewer than 10 measurements for some aircraft types
- INM estimates were available for only nine aircraft types
 - LAWA staff "mapped" actual aircraft to one of these types
- Ongoing implementation
 - LAWA staff monitor on a continuing basis
 - Send letters to operators exceeding targets
 - Prepare monthly report on exceedences by operator

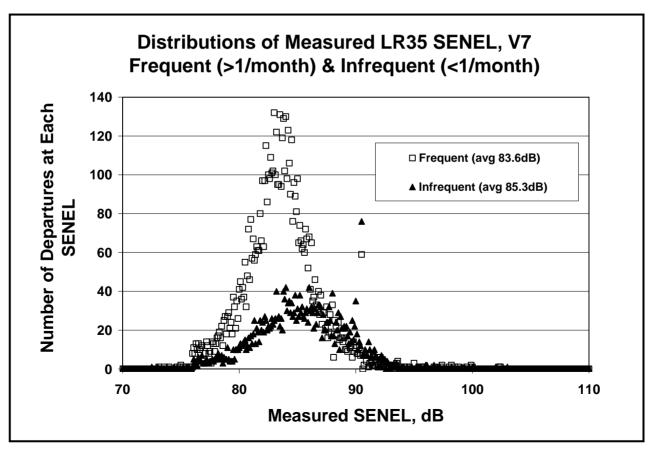
- Part 161 scope called for assessing mandatory program
- Detailed analysis showed:
 - Voluntary program has been highly successful
 - Measurable benefits; about 2.2 dB average improvement
 - No obvious "bad performers" to target in a formal manner
 - A formal program would ultimately affect even "best performers"
- In addition, FAA considers this type of rule "unsafe"
 - Highly unlikely to approve formal restriction
- HMMH recommended
 - Develop updated targets for as many jet types as possible
 - Set targets to affect each type equally encourage "best effort"
 - Targets affecting noisiest 5% of departures would approximate benefit of full adherence to existing targets
 - Continue as voluntary effort with enhanced promotion

Looking for "Magic Bullet" Targets: Are there obvious bad performers to restrict?



In the absence of a "magic bullet," what do the data reveal that can assist us?

- Frequent operators tend to perform better
 - May be learning curve, gentle pressure from letters, or greater interest among local operators in being a "good neighbor"



- Targets affecting noisiest 5% of departures would approximate benefit of full adherence to existing targets
 - Continue existing upper and lower limits of 110 and 90 dB
- HMMH has developed final 5% exceedance targets
 - 50 +/- types with sufficient measurement data
 - Interim targets suggested for aircraft currently operating at VNY with insufficient measurement sample sizes
 - FA7X, CRJ2, CRJ7, and LJ40
- Recommended method to set targets for new types
 - Determine initial target when 100 measurements are available
 - Update when the sample size reaches 1,000 departures
 - Provided spreadsheet to compute targets from measurements

- "Good Performer" awards program
 - Proven effective at other airports; e.g., APF, FXE, HPN, TRK
- Potential program elements
 - Catchy name; e.g., "Spirit of Noise Abatement Awards" (HPN)
 - Defined evaluation period; e.g., annual
 - Complementary criteria linked to other noise program objectives
 - e.g., no violations of any existing formal noise rules
 - Awards ceremony and reception
 - Public recognition; e.g., press releases, website listing, BOAC acknowledgement
 - Physical awards; e.g., trophies or plaques for display
 - Physical rewards; e.g., gift certificates, t-shirts, hats, etc.
 - Specific evaluation criteria ...

Award Program Exceedance Criteria

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Recommended eligibility criteria

- Operator must conduct at least 30 Runway 16R departures in all jet aircraft types in the year
- Operator must exceed applicable targets no more than three percent of the time
- Historical data suggests criteria will yield 20 +/- annual winners
- All operators would continue to receive letters from LAWA notifying them of individual exceedances
 - To provide continuing educational feedback
- Reassess targets, criteria, and other elements
 - When annual exceedances for all operators and types falls to three percent of jet departures on Runway 16R
 - Consider making the program more stringent or other revisions

Discussion

- Questions?
- Ideas?
- Let's start with a name
 - Here are three suggestions
 - LAWA?????