Ground Run-Ups Monitoring at LAX

May 14, 2008

LAX/Community Noise Roundtable
Background

- Engine Run-Ups are part of regular maintenance requirements.

- Engines are tested at high power levels to ensure their proper operations and thus cause noise disturbance on surrounding communities.

- Engine Run-Ups are prohibited from 2300 to 0600 at LAX.

- A system is required to monitor this activity.
Engine Run-Ups Areas
Technologies

• Electrical – Solar Panels with Batteries

• Communication – 3G Cellular Service

• Equipment – Camera and Noise Monitor, both equipped with 3G service

• Software – Ability to read text (N-Number) from image (not feasible)
Temporary Monitoring at Fed Ex Run-Up Area
Issue with Communication

- Missing Images from Camera
- Cause – Verizon 24-Hour Disconnect Policy
- Solution – Programmed camera to disconnect and reconnect network every minute
- Does not affect Noise Monitor
Actual Image from Camera
Noise Event for Engine Run Up
Example of GRU Reporting Interface

Site: FedEx
Date/Time of Activity: 2007-10-10 09:03:21
Status: Unconfirmed

Unconfirmed
Confirm
Return

Click on images for larger picture
Plans are underway to install permanent monitor at Fed Ex
Future Location of Permanent Noise Monitor at Fed Ex
Removing existing facilities for new contact gates
Evaluating Noise Impact for Ground Run-Up