First Look at Low Frequency Noise (LFN) Data from New Noise Monitoring System

September 20, 2010

LAX/Community Noise Roundtable
Capability of New Noise Monitoring System to Measure LFN

- System is able to measure the following C-weighted noise metrics:
  - Lmax
  - SEL
  - LEQ

- Enabled Noise Monitors to Measure LFN in February 2010
Noise Monitors for Measuring LFN

[Map showing locations of noise monitors, with red circles marked as LFN Enabled Noise Monitors.]

Los Angeles World Airports
South Complex – All LFN Enabled Monitors

Number of C-Weighted Lmax Noise Events

- AIR1: 2531
- ESG1: 453
- ESG2: 6060
- ESG3: 5038
- ESG5: 2611
- DEL1: 92
- LNX2: 4663
- LNX3: 271

- >85 dBC
- 75-85 dBC
South Complex – ESG2 Monitor

![Graph showing the number of noise events for ESG2 across different time periods. The graph has two categories: >85 dBC and 75-85 dBC. The x-axis represents different time periods from 12 AM to 11 PM, and the y-axis represents the number of noise events. The peaks are observed during the midnight hours and the late afternoon.](image-url)
South Complex – LNX2 Monitor

LNX2 - Time of Day

Number of Noise Events

- >85 dBC
- 75-85 dBC

Los Angeles World Airports
North Complex – All LFN Enabled Monitors

<table>
<thead>
<tr>
<th>Location</th>
<th>&gt;85 dBC</th>
<th>75-85 dBC</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDR1</td>
<td>1730</td>
<td>5322</td>
</tr>
<tr>
<td>GRU1</td>
<td>14</td>
<td>5643</td>
</tr>
<tr>
<td>WCH2</td>
<td>4024</td>
<td>123</td>
</tr>
<tr>
<td>WCH3</td>
<td>101</td>
<td>2365</td>
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<tr>
<td>WCH5</td>
<td>7553</td>
<td>1690</td>
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<tr>
<td>WCH6</td>
<td>153</td>
<td>6506</td>
</tr>
</tbody>
</table>
North Complex – PDR1 Monitor

PDR1 - Time of Day

Number of Noise Events

- >85 dBC
- 75-85 dBC

0 100 200 300 400 500 600 700

12 AM 1 AM 2 AM 3 AM 4 AM 5 AM 6 AM 7 AM 8 AM 9 AM 10 AM 11 AM 12 PM 1 PM 2 PM 3 PM 4 PM 5 PM 6 PM 7 PM 8 PM 9 PM 10 PM 11 PM
North Complex – WCH6 Monitor

WCH6 - Time of Day

Number of Noise Events

- >85 dBC
- 75-85 dBC