Status Report
Noise Mitigation Programs

Presentation to the LAX/Community Noise Roundtable

May 8, 2013

Los Angeles World Airports
Environmental Services Division
Sound Insulation Grant Program
Aircraft Sound Insulation Programs at LAX

- Land uses around airports such as residences, schools, hospitals and places of worship, with a Community Noise Equivalent Level (CNEL) of 65 dB, are generally considered “incompatible” with the airport.

- Los Angeles International Airport (LAX) has an FAA-approved Noise Compatibility Program, which makes certain residential areas eligible for FAA funding.

- Federal (ANSA, 1979), State (Title 21, 1970) and Local (Reso 21481, 2001) rules provide eligibility and funding structure.
LAX Program Participants

Residential Programs
- City of El Segundo
- City of Inglewood
- City of Los Angeles
- County of Los Angeles

School Programs
- Inglewood Unified School District
- Lennox School District
Program Governance and Funding

- Provides up to $240M in noise mitigation funding for Cities of El Segundo, Inglewood, County of LA
  - Initial disbursement for 2006 and 2007 of $60M
  - “Future Funding” for 2008 – 2015 has annual cap of $22.5M shared by 3 jurisdictions; maximum of $180M over 8 year period

Community Benefits Agreement (2005)
- Minimum Funding for County of LA and City of Inglewood ($4.275M for each)
- Other Benefits - end-of-block soundproofing, suspension/purchase of avigation easements ($ \geq 75$ dBL)
LAWA’s Sound Insulation Grant Program

Re-Visioning the Sound Insulation Grant Program

- Enhancing program monitoring and construction oversight
- Increased Outreach to all Stakeholders- local sponsors, contractors, architects, and manufacturers
- Focused assistance to Jurisdictions to improve local sound insulation process
- Funding provided of $20M in last 12 months
- Assessment of impact of FAA clarification of RSI and Schools Insulation programs (PGL 12-09)
How Noise is Mitigated

Typical Sound Insulation Techniques:

Residential:
- Replacing windows, and doors (including hardware and weather-stripping)
- Adding insulation in attics, and installing baffles at attic vents
- Installing glass fireplace doors, and chimney top dampers

Schools:
- Replacement of doors and new threshold for the exterior classroom doors
- Install new windows where wood replacement or dry wall-blocked windows currently exist
- Exterior wall insulation and interior sound panels as needed

Both:
- Mechanical system upgrades (HVAC/PVS) with sound traps and vibration control as needed
- Target of 45 dB interior noise level, and/or a 5 dB reduction

Typical Residential Acquisition (City of LA only):
- Purchase properties in areas zoned for commercial or industrial uses
- Redevelop parcels per local planning and zoning
# Yearly Progress for LAWA Sound Insulation Programs

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Total Units Eligible</th>
<th>Units Completed Pre-2006</th>
<th>Total Units Mitigated 2006</th>
<th>Total Units Mitigated 2007</th>
<th>Total Units Mitigated 2008</th>
<th>Total Units Mitigated 2009</th>
<th>Total Units Mitigated 2010</th>
<th>Total Units Mitigated 2011</th>
<th>Total Units Mitigated 2012</th>
<th>Total Units Mitigated 2006-2012</th>
<th>All Totals Mitigated Start-2012</th>
<th>Total Remaining</th>
<th>Percent of Units Cmpltd</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of El Segundo</td>
<td>4,537</td>
<td>212</td>
<td>137</td>
<td>203</td>
<td>304</td>
<td>182</td>
<td>92</td>
<td>0</td>
<td>142</td>
<td>1,060</td>
<td>1,272</td>
<td>3,265</td>
<td>28%</td>
</tr>
<tr>
<td>City of LA</td>
<td>8,886</td>
<td>4,307</td>
<td>619</td>
<td>523</td>
<td>694</td>
<td>261</td>
<td>215</td>
<td>390</td>
<td>320</td>
<td>3,022</td>
<td>7,329</td>
<td>1,557</td>
<td>82%</td>
</tr>
<tr>
<td>County of LA</td>
<td>6,200</td>
<td>779</td>
<td>133</td>
<td>337</td>
<td>222</td>
<td>225</td>
<td>193</td>
<td>323</td>
<td>187</td>
<td>1,620</td>
<td>2,399</td>
<td>3,801</td>
<td>39%</td>
</tr>
<tr>
<td>City of Inglewood</td>
<td>8,700</td>
<td>1,763</td>
<td>133</td>
<td>159</td>
<td>1,007</td>
<td>253</td>
<td>195</td>
<td>332</td>
<td>238</td>
<td>2,317</td>
<td>4,080</td>
<td>4,620</td>
<td>47%</td>
</tr>
<tr>
<td>City of Ontario</td>
<td>2,418</td>
<td>813</td>
<td>58</td>
<td>136</td>
<td>12</td>
<td>87</td>
<td>35</td>
<td>92</td>
<td>146</td>
<td>566</td>
<td>1,379</td>
<td>1,039</td>
<td>57%</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>30,741</strong></td>
<td><strong>7,874</strong></td>
<td><strong>1,080</strong></td>
<td><strong>1,358</strong></td>
<td><strong>2,239</strong></td>
<td><strong>1,008</strong></td>
<td><strong>730</strong></td>
<td><strong>1,137</strong></td>
<td><strong>1,033</strong></td>
<td><strong>8,585</strong></td>
<td><strong>16,459</strong></td>
<td><strong>14,058</strong></td>
<td><strong>54%</strong></td>
</tr>
</tbody>
</table>
Annual Production Rates 2006-12 for Residential Sound Insulation
**City of El Segundo**  
**Program Status: 1993-2012**

<table>
<thead>
<tr>
<th>Total Funding</th>
<th>Total Units Mitigated</th>
<th>To Be Mitigated</th>
<th>2011-2012 Funding</th>
<th>2011-2012 FAA Funding</th>
<th>2011-2012 LAWA Funding</th>
<th>Units mitigated 2011-2012</th>
<th>2011-2012 Expenses</th>
<th>Average Cost/per unit **</th>
</tr>
</thead>
<tbody>
<tr>
<td>$73,007,558</td>
<td>1,272</td>
<td>3,265</td>
<td>$10.5M</td>
<td>$5M</td>
<td>$5.5M</td>
<td>142</td>
<td>$4.9M</td>
<td>$35,114</td>
</tr>
</tbody>
</table>

* El Segundo began accepting 20% match from LAWA with the signed Stipulated Settlement Agreement in 2006.
** This figure is based on the amount of expenditures divided by the number of units mitigated, and may not accurately reflect actual per unit costs.

**Recent Action:**

- $9.225M in LAWA funding provided in February 2013 combined w/FAA funds of $5M for 329 units.
City of Los Angeles
Program Status: 1997-2012

Recent Actions:

- Funding of $1.215M provided for 71 units in CD 11 in June 2012.
- Funding of $2.163M funding provided in November 2012 for 112 units in both CD 8 and CD 11.

<table>
<thead>
<tr>
<th>Total Funding</th>
<th>Total Units Mitigated</th>
<th>To Be Mitigated</th>
<th>2011-2012 Funding*</th>
<th>Units mitigated 2011-2012</th>
<th>2011-2012 Expenses**</th>
<th>Average Cost/per unit ***</th>
</tr>
</thead>
<tbody>
<tr>
<td>$156,000,000</td>
<td>7,090</td>
<td>239</td>
<td>$7.7M</td>
<td>541</td>
<td>$10.4M</td>
<td>$19,298</td>
</tr>
</tbody>
</table>

* Reflects construction costs plus 20% for administration
** Reflects construction expenses plus 20% administration
*** This figure is an average based on the amount of funding provided divided by the number of units mitigated.
City of Inglewood
Recent Actions:

LAWA and the City of Inglewood are working together to improve productivity of the RSI Program. In addition to retaining a program management firm and undertaking an audit of the Program, the City will be issuing construction bids for over 900 units in the next seven months.
County of Los Angeles
# County of Los Angeles Program Status: 1992-2012

## Recent Actions:

- $9.22M in LAWA grant provided in November of 2012 for 391 units.

### Total Funding

<table>
<thead>
<tr>
<th>Total Funding</th>
<th>Total Units Mitigated</th>
<th>To Be Mitigated</th>
<th>2011-2012 FAFA Funding</th>
<th>2011-2012 LAWA Funding</th>
<th>Units Mitigated 2011-2012</th>
<th>2011-2012 Expenses</th>
<th>Average Cost/per unit *</th>
</tr>
</thead>
<tbody>
<tr>
<td>$113,825,000</td>
<td>2,399</td>
<td>3,801</td>
<td>$31.7M</td>
<td>$15M</td>
<td>510</td>
<td>$14.7M</td>
<td>$28,992</td>
</tr>
</tbody>
</table>

* Note: Per unit costs are averages based on the amount of expenditures divided by the number of units mitigated.
School Mitigation Programs

Lennox School Districts
School Mitigation Programs

*Lennox School Districts*

- Per Settlement
  - 11 Schools
  - Up to $111,000,000
- FAA has approved a PFC application for $35 million
- December 2010 $1.2 Million
  - Huerta Middle School
- December 2011 $10 Million
  - 1st Year Program
  - Felton Elementary, Animo High School, Lennox Middle School, Jefferson Elementary and New school construction north of Jefferson Elementary
School Mitigation Programs
Inglewood Unified School Districts
### School Mitigation Programs
*Inglewood Unified School Districts*

<table>
<thead>
<tr>
<th></th>
<th>Per Settlement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10 Schools</td>
</tr>
<tr>
<td></td>
<td>Up to $118,000,000</td>
</tr>
</tbody>
</table>

- No funding received to date

- PFC application will be submitted to the FAA pending determination of inclusion of modular buildings. This determination is expected to occur at the end of the month.
Questions?