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 (NCP), 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.
<table>
<thead>
<tr>
<th>Residential Programs</th>
<th>School Programs</th>
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<tbody>
<tr>
<td>City of El Segundo</td>
<td>Lennox School District</td>
</tr>
<tr>
<td>City of Inglewood</td>
<td>Inglewood Unified School District</td>
</tr>
<tr>
<td>County of Los Angeles (Lennox, Del Aire, Athens)</td>
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<tr>
<td>City of Los Angeles</td>
<td></td>
</tr>
</tbody>
</table>
Typical Sound Insulation Techniques:

Residential:
- Replacing windows, and doors (including hardware and weather-stripping)

Schools:
- Replacement of doors, 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)
- Target of 45 dB interior noise level, and/or a 5 dB reduction
# Residential Program - Yearly Progress Chart

## Los Angeles World Airports' Sound Insulation Grant Programs - Status Update

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>City of El Segundo</td>
<td>4,537</td>
<td>309</td>
<td>120</td>
<td>204</td>
<td>303</td>
<td>182</td>
<td>112</td>
<td>0</td>
<td>142</td>
<td>172</td>
<td>50</td>
<td>349</td>
<td>1,634</td>
<td>1,943</td>
<td>2,594</td>
<td>43%</td>
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<tr>
<td>City of LA 1</td>
<td>8,710</td>
<td>3,991</td>
<td>619</td>
<td>523</td>
<td>694</td>
<td>261</td>
<td>215</td>
<td>390</td>
<td>320</td>
<td>312</td>
<td>2</td>
<td>N/A</td>
<td>3,336</td>
<td>7,327</td>
<td>---</td>
<td>100%</td>
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</tr>
<tr>
<td>Van Nuys 1</td>
<td>1,051</td>
<td>565</td>
<td>10</td>
<td>20</td>
<td>131</td>
<td>0</td>
<td>0</td>
<td>54</td>
<td>N/A</td>
<td>215</td>
<td>780</td>
<td>---</td>
<td>100%</td>
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</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>316</td>
<td>373</td>
<td>816</td>
<td>3,125</td>
<td>3,904</td>
<td>2,296</td>
<td>63%</td>
<td></td>
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<tr>
<td>City of Inglewood 2</td>
<td>9,569</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>580</td>
<td>691</td>
<td>2,077</td>
<td>5,665</td>
<td>7,428</td>
<td>2,141</td>
<td>78%</td>
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</tr>
<tr>
<td>City of Ontario 3</td>
<td>2,418</td>
<td>855</td>
<td>0</td>
<td>35</td>
<td>81</td>
<td>77</td>
<td>32</td>
<td>100</td>
<td>148</td>
<td>106</td>
<td>66</td>
<td>99</td>
<td>744</td>
<td>1,599</td>
<td>819</td>
<td>66%</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32,485</strong></td>
<td><strong>8,262</strong></td>
<td><strong>1,015</strong></td>
<td><strong>1,278</strong></td>
<td><strong>2,438</strong></td>
<td><strong>998</strong></td>
<td><strong>747</strong></td>
<td><strong>1,199</strong></td>
<td><strong>1,035</strong></td>
<td><strong>1,486</strong></td>
<td><strong>1,182</strong></td>
<td><strong>3,341</strong></td>
<td><strong>14,719</strong></td>
<td><strong>22,981</strong></td>
<td><strong>7,850</strong></td>
<td><strong>71%</strong></td>
<td></td>
</tr>
</tbody>
</table>

Notes:
1) City of LA - VNY and LAX are complete, programs now closed, Variance between Total Eligible and Total Mitigated = Non Participating Units; 2) INGL added 869 units to Total Eligible as result of EOB units from 4Q92 contour 3) Ontario was using the 1995 FAA Part 150 NEM. Based on the new 2020 NEM (final draft), all residential units are now compatible with ONT aircraft noise. Remaining 819 units reflect those units from the 1995 NEM.
2006-2015 Construction Progress

City of LA - Completed

City of Inglewood

County of LA

City of El Segundo
Lennox School District

- FAA approved PFC funding: 11 Schools and $34 million
- 2011 - $10 Million awarded for 1st Work Plan
- 2014 - $10 Million awarded for 2nd Work Plan
- Completed Schools: Huerta Elementary, Animo Leadership High School, Felton Elementary, Lennox Middle School, Jefferson ORG
- Still in progress: Buford Elementary – construction started July 5, 2016
  Jefferson Elementary – construction delayed until 2017
- Removed from program: New Media & Performing Arts HS; Moffett Elementary and Lennox Academy – deferred
Inglewood Unified School District

* 2014 – PFC: $44.4 million for 6 schools
  - Payne Elementary, Morningside High, Monroe Middle School, Woodworth Elementary, Woodworth Child Development Center, Oak St. Elementary

* 2015 – $10 million awarded

* 2016 - IUSD and LAWA working on request to reevaluate inclusion of Inglewood High School which was originally disapproved by FAA
Inglewood Unified School District
2015-6 Highlights for the Sound Insulation Grant Program

Dec 2015: LAX-RSI programs sound insulated a record 3,341 homes in 12-months
   Inglewood finished 2,077 homes - most in the country

Oct 2015: New FAA rules for two-step testing went into effect
   - Homes must be inside 65 dB contour; and
   - Interior noise level of 45 dB or greater (average of all habitable rooms)

Oct 2015: LAWA released Acoustical Testing Plan (ATP) for use at LAX

Jan 2016: FAA approved Noise Exposure Maps (NEMs) for use at LAX

May 2016: LAWA authorized Inglewood and LA County to begin testing
   - Completed previous reporting requirements; Update on remaining funding;
     Provided Outreach plan

June 2016: ATP testing in progress
Program Boundary – 2020 NEM vs. 4Q92
END