Statistical Update on LAX Aircraft Operations

July 11, 2012

LAX/Community Noise Roundtable
Statistical information on the following operations:

- East Departures
- Early Turns
- Go-arounds
Total Operations Comparison

Total LAX Operations

- Total Ops (Arrivals & Departures)


Operations:
- 1994: 689,888
- 1995: 732,639
- 1996: 763,866
- 1997: 779,150
- 1998: 783,433
- 1999: 773,569
- 2000: 783,433
- 2001: 738,433
- 2002: 645,424
- 2003: 622,378
- 2004: 655,097
- 2005: 650,629
- 2006: 656,842
- 2007: 680,954
- 2008: 622,506
- 2009: 544,833
- 2010: 575,835
- 2011: 603,912

Source: Los Angeles World Airports
Non-Conforming East Departures
Midnight to 6:30 AM

This report shows a summary of aircraft operations that departed to the east while the airport is still conducting westerly departures between midnight and 6:30 a.m. These individual easterly departures usually occur when the pilot of a heavy aircraft (e.g. B747s) determines that the tail wind is too great for the weight of the aircraft and requests to depart east into the wind for aircraft safety.

Sample of East Departure Flights

![Map of East Departure Flights]

Annual Comparison

![Graph of Annual Comparison]

Monthly Comparison

![Graph of Monthly Comparison]
Non-Conforming East Departures by Operators
Midnight to 6:30 AM

One Year Period
(Jun 2011 to May 2012)

Total: 49 East Departures

Qantas Airways
China Airlines
Delta
Korean Airlines
Asiana Airlines
All Nippon Airways
Cathay Pacific Airways
American Airlines
Alaska Airlines
AeroLogic
Air China
Cargolux
Lufthansa
Nippon Cargo
Philippine Air Lines

Number of East Departures

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Los Angeles World Airports
Early Turn to the North

Aircraft departing to the ocean turn early prior to reaching the shoreline
Early Turn to the South

Aircraft departing to the ocean turn early prior to reaching the shoreline

Early turn over El Segundo

Annual Comparison

Monthly Comparison
Early Turns by Operators

One Year Period (Jun 2011 to May 2012)
Top 10 Operators

<table>
<thead>
<tr>
<th>Operator</th>
<th>Jet Early Turn</th>
<th>Prop Early Turn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skywest</td>
<td>121</td>
<td>276</td>
</tr>
<tr>
<td>General Aviation</td>
<td>98</td>
<td>121</td>
</tr>
<tr>
<td>Delta</td>
<td>80</td>
<td>98</td>
</tr>
<tr>
<td>American</td>
<td>60</td>
<td>80</td>
</tr>
<tr>
<td>Fed Ex</td>
<td>47</td>
<td>60</td>
</tr>
<tr>
<td>Great Lake Aviation</td>
<td>41</td>
<td>47</td>
</tr>
<tr>
<td>NeJets</td>
<td>40</td>
<td>41</td>
</tr>
<tr>
<td>Horizon Air</td>
<td>30</td>
<td>40</td>
</tr>
<tr>
<td>American Eagle</td>
<td>0.1%</td>
<td></td>
</tr>
</tbody>
</table>

( ) = Percentage of Total Departure for each Operator
Early Turns Breakdown
May 2012

<table>
<thead>
<tr>
<th>Total Early Turn Ops</th>
<th>155</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hyperion Gate</td>
<td>110</td>
</tr>
<tr>
<td>El Segundo Gate</td>
<td>27</td>
</tr>
<tr>
<td>Playa Del Rey Gate</td>
<td>18</td>
</tr>
</tbody>
</table>

Result of Investigation
Only El Segundo and Playa Del Rey Gates

<table>
<thead>
<tr>
<th>Total</th>
<th>45</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAA instructed</td>
<td>27</td>
</tr>
<tr>
<td>Pilot initiated</td>
<td>18</td>
</tr>
<tr>
<td>Wind drift</td>
<td>0</td>
</tr>
</tbody>
</table>
Monitoring pilot or ATC initiated go-around or missed approaches

Example of Go-arounds

Go-Arounds

Annual Comparison

Monthly Comparison

Los Angeles World Airports
## Reasons for Go-Arounds – May 2012

<table>
<thead>
<tr>
<th>Pilot Initiated</th>
<th>22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Too high or too fast</td>
<td>16</td>
</tr>
<tr>
<td>Aircraft Equipment (flaps, gears, avionics)</td>
<td>4</td>
</tr>
<tr>
<td>Ground Equipment (Navaids, lighting, etc)</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Controller Initiated</th>
<th>17</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-trail Spacing</td>
<td>9</td>
</tr>
<tr>
<td>Previous Arrival Traffic on Runway</td>
<td>4</td>
</tr>
<tr>
<td>Runway Crossing Traffic</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unknown</th>
<th>4</th>
</tr>
</thead>
</table>

| Total                                                | 43 |
Go-Arounds – Not Maintaining RWY Headings

Example of Go-around not maintaining runway heading