

# Evaluation of LAX North Downwind Arrivals

## Technical Memorandum

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## Appendix B – Data and Analysis File Summary

Table 1. Deliverables Summary

Folder	Sub-Folder	File Name	File Count	Description
ALTITUDE_BANDS		BANDS<year>_<location>.csv	60	Altitude band histogram data, from 500 ft. to 8000 ft., in 500 ft. increments, for each location, for each year.
ALTITUDE_DISTRIBUTION_PLOTS	<year>_ALTITUDE_DISTRIBUTION_PLOTS	<location> <month> <year>.png	720	Heat map images of Gate Crossings for each location, for each month, for each year.
		HistogramResults.xlsx	1	Ten (10) workbooks, one for each Location. Each workbook has four (4) values for each month, for each year. These values are Average Altitude, Average Deviation, Average Histogram Peak Altitude and Average Histogram Peak Deviation. Each workbook contains two (2) plots showing the monthly change in Peak Altitude and Peak Deviation for the six (6) year study period.
APPROACH_PLATES		SADDE_SIX.png	1	Arrival plate for SADDE SIX
		SYMON_ONE_RNAV.png	1	Arrival plate for SYMON ONE
BUSIEST_HOUR		AvgSlantDistanceByHourByLocation.xlsx	1	Ten (10) workbooks, one for each location. Each workbook contains the activity levels for arrivals for each year for each hour.
		Culver_City_TOD_2010_2015.xlsx	1	A Time-of-Day (TOD) analysis for Culver City comparing 2010 vs 2015. There are four (4) time frames - 00:00=>05:59, 06:00=>11:59, 12:00=> 17:59, 18:00=>23:59
CATEGORY_SPREADSHEETS		AverageAltitudeByCategoryByLocation<year>.xlsx	6	One (1) spreadsheet for each year. Ten (10) workbooks, one for each Location. Each workbook contains two (2) tables -- Average Altitude and Activity Levels for each month of that Year for that Location.
		AverageSlantDistanceByCategoryByLocation<year>.xlsx	6	One (1) spreadsheet for each year. Ten (10) workbooks, one for each Location. Each workbook contains two (2) tables -- Average Slant Distance and Activity Levels for each month of that Year for that Location.
		CountsByCategoryByMonthAllYears.xlsx	1	A look at the Monthly Activity Levels for each NEM Group. One (1) workbook for each Year, and also one (1) workbook for Annual Activity Levels.
CONFIGURATION_FILES		AnalysisLocations.xls	1	All of the Gates and Locations used in this study.
		GatesAndLocations.kml	1	A Google Earth KML file to visualize the Gates and Locations.
		NortherlyArrivals.kml	1	A Google Earth KML file to visualize a sample set of flight tracks through the Gates.
FLIGHT_TRACK_DENSITY_PLOTS	FLIGHT_TRACK_DENSITY_PLOTS_<year>	306430_LAWA_Track_Density_<month>_<year>.pdf	72	A Flight Track Density Plot for each month for each year.
GATE_CROSSINGS	<year>_GATE_CROSSINGS	<month><year>.csv	72	Raw Gate Crossing data for each month for each year.
SEL		Analyze_AC_GROUP.xlsx	1	Annual and Monthly Activity Levels for ACGROUP
		Analyze_NEM_GROUP.xlsx	1	Annual and Monthly Activity Levels for NEMGROUP
		Compare_2014-TO-2015_AC_GROUP.xlsx	1	Monthly average SEL values for April 2014, October 2014, April 2015 and October 2015 at all locations for ACGROUP aircraft (with graphs).
		Compare_2014-TO-2015_NEM_GROUP	1	Monthly average SEL values for April 2014, October 2014, April 2015 and October 2015 at all locations for NEM GROUP aircraft (with graphs).

Folder	Sub-Folder	File Name	File Count	Description
		P.xlsx		
		Compare_APR-2014-TO-OCT-2014_AC_GROUP.xlsx	1	Changes in monthly average SEL values from April 2014 to October 2014 at all locations for AC GROUP aircraft (with graphs).
		Compare_APR-2014-TO-OCT-2014_NEM_GROUP.P.xlsx	1	Changes in monthly average SEL values from April 2014 to October 2014 at all locations for NEM GROUP aircraft (with graphs).
		Compare_APR-2015-TO-OCT-2015_AC_GROUP.xlsx	1	Changes in monthly average SEL values from April 2015 to October 2015 at all locations for AC GROUP aircraft (with graphs).
		Compare_APR-2015-TO-OCT-2015_NEM_GROUP.P.xlsx	1	Changes in monthly average SEL values from April 2015 to October 2015 at all locations for NEM GROUP aircraft (with graphs).
		Compare_ENERGY_AVERAGE-TO-ARITHMETIC_AVERAGE.xlsx	1	For NEM Group aircraft, for April 2015 and October 2015, monthly average SEL values were alternatively calculated using an energy average as opposed to a daily arithmetic average. Differences are presented here.
		Compare_OCT-2014-TO-APR-2015_AC_GROUP.xlsx	1	Changes in monthly average SEL values from October 2014 to April 2015 at all locations for AC GROUP aircraft (with graphs).
		Compare_OCT-2014-TO-APR-2015_NEM_GROUP.P.xlsx	1	Changes in monthly average SEL values from October 2014 to April 2015 at all locations for NEM GROUP aircraft (with graphs).
		CountsByAircraftTypeForNEMGroups.xlsx	1	Looking for explanations for SEL changes, this breaks down NEM Groups into specific aircraft types, providing activity levels for comparison of all months in 2014 and 2015.
		SELSixYearComparison_With_Charts.xlsx	1	Using only the month of April for all years from 2010 thru 2015, compare monthly average SEL values for AC and NEM Groups at all locations (with graphs).
	LAX_<year>	*.log, *.csv, *.xlsx	28	Log files and SEL raw data

