MEMORANDUM

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DEPARTMENT OF AVIATION

TO: DISTRIBUTION

FROM: GEORGE C. SIMS, PLANNER

SUBJECT: OCTOBER, NOVEMBER, DECEMBER AND ANNUAL 2012 NOISE COMPLAINT REPORTS

DATE: JANUARY 23, 2013

Attached for your review are the Clark County Department of Aviation's (CCDOA) Monthly Noise Complaint Reports for October, November, and December 2012. Also included is the 2012 Annual Noise Complaint Report, covering the period of January through December 2012. Please note the following Clark County airport abbreviations: McCarran International Airport (LAS), North Las Vegas Airport (VGT), and Henderson Executive Airport (HND).

The following reports describe noise complaints regarding helicopter and fixed-wing aircraft operations at LAS, VGT, and HND. Aircraft noise complaints are received either through the CCDOA's Noise Hotline (261-3694), the Noise Office (261-5600), or calls forwarded from LAS's toll free number (1-800-261-5704). Nellis Air Force Base noise complaints are forwarded to the Nellis Public Affairs Office (652-2750), and noise complaints regarding aircraft operations from the Boulder City Airport are forwarded to the Boulder City Airport Coordinator (293-9405). Individuals who express concerns regarding aircraft operations from private facilities (i.e., Valley Hospital, the private helipad located near Las Vegas Blvd. and Larson Lane, or the private helipad located near Cheyenne Road and North 5th Street) are asked to contact the individual property owner directly.

Exhibit 1 of each Monthly Noise Complaint Report illustrates the number of calls received by community as well as the number of individual callers or households. **Exhibit 2** illustrates the primary nature of the disturbance as identified by the caller. The second page of each monthly report (**Exhibit 3**) graphically illustrates all known origins of the calls received that month. **Exhibits 4 and 5** summarize arrival and departure runway use for large and non-large air carrier aircraft (new for the 2012 monthly reports). Arrival and departure corridor use for helicopters are summarized in **Exhibit 6** (also new for the 2012 monthly reports). **Exhibit 7** provides a complete arrival fleet mix of all aircraft landing at LAS and highlights the two noisier aircraft types, the Boeing 727 series and Boeing 737-100 and 737-200 series (non-large air carrier aircraft types were added to the 2012 monthly reports). **Exhibit 8** illustrates the general departure direction for large aircraft (historically only provided on an annual basis).

Lastly, **Exhibit 9** summarizes how well large aircraft and helicopters adhered to the preferred, non-regulated departure corridors (also historically provided on an annual basis for large aircraft, with helicopter analysis new for the 2012 monthly reports). Adherence to preferred departure corridors is voluntary, and neither Clark County nor the State of Nevada regulates aircraft in flight. The FAA, through the discretion of Congress, has sole authority over the safe and efficient utilization of the nation's navigable airspace. Therefore, local and state authorities cannot legally enforce the use of these departure corridors, or impose penalties to pilots who opt not to comply with preferred procedures. "Compliance gates" are located along these historical/fly-quietly departure routes. If all aircraft flew with advanced navigational technologies and operated under Required Navigational Precision (RNP) procedures, then it could be expected that up to 95% of all aircraft would be within 0.3 nautical miles (NM) of a fly-over point. Therefore, 0.3 NM is the threshold for compliance for large air carrier aircraft. The compliance threshold for helicopters is 500 feet.

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The Annual Noise Complaint Report includes additional information that is not provided in each monthly report. These additional illustrations (Exhibits 10 through 14) are helpful in assessing seasonal trends, comparisons of noise issues between various CCDOA facilities, noise complaint patterns between communities, long-term runway use trends, and long-term compliance determinations with the preferred departure corridors. **Exhibit 10** of the annual report illustrates the number of calls and callers by month, between 2010 and 2012. **Exhibit 11** illustrates the general time when the complaint was received by the CCDOA. Monthly calls by airport or helicopter operation are depicted on **Exhibit 12**. **Exhibit 13** depicts monthly calls by community. The final annual report, **Exhibit 14**, summarizes monthly calls by specific LAS operation.

The following provides a synopsis of each monthly noise complaint report and additional noise-related issues addressed during the reporting period. Please refer to each noise complaint report for more detailed information.

Monthly Noise Complaint Summaries

October 2012: 77 total complaints - a 48% increase from 2011 and a 20% decrease from 2010. On average, each caller (or household) issued 2.1 calls. The most calls received from one household totaled 21.

Calls by Community - (Exhibits 1 and 3)

Majority (more than 50%): (Not applicable.)

Minority (between 10% and 50%): The *City of Henderson* community issued 27 calls (35%). This community is typically impacted by aircraft departing to the east (from Runway 07R and Runway 07L). This community is also impacted by aircraft arriving from the east (into Runway 25R and Runway 25L, LAS preferred departure configuration).

The *Paradise and Winchester* communities issued 18 calls (23%). These communities are typically impacted by aircraft departing to the north (from Runway 01R and Runway 01L) and aircraft arriving from the north (into Runways 19R and 19L).

The *Spring Valley* community issued 13 calls (17%). This community is typically impacted by aircraft departing to the west (from Runway 25R and Runway 25L). This community is also impacted by aircraft departing to the north (from Runway 01R and Runway 01L) that turn left (to the west and south).

Repeat Caller Impact: One household issued 27% (21 calls) of all the calls received in October 2012.

Calls by Operation - (Exhibit 2)

LAS:	 56% of the total calls were due to LAS fixed-wing operations. 34% were due to departures to the north from Runways 01L and 01R.
VGT:	0% of the total calls were due to VGT fixed-wing operations.
HND:	5% of the total calls were due to <i>HND</i> fixed-wing operations.
Helis:	 39% of the total calls were due to <i>helicopter</i> operations. 70% from one household.

LAS Operations & Runway Use by Large Air Carriers - (Exhibit 4)

Overall: 414 daily departures¹ – a 14% decrease from 2011 and 11% decrease from 2010.
78% of departures were to the west, 16% north, 4% south, and 2% east.
475 daily arrivals – a 3% decrease from 2011 and 1% increase from 2010.
81% of arrivals were from the east, 10% north, 8% south, and <1% west.

Daytime: 352 daily departures² – a 16% decrease from 2011 and a 13% decrease from 2010.

77% of departures were to the west, 17% north, 4% south, and 2% east.
423 daily arrivals – a 4% decrease from 2011 and a 1% decrease from 2010.
81% of arrivals were from the east, 10% north, 9% south, and <1% west.

Nighttime: 62 daily departures³ – a 1% increase from 2011 and a 6% increase from 2010.

85% of departures were to the west, 10% north, 4% south, and <1% east.
53 daily arrivals – a 3% increase from 2011 and a 22% increase from 2010.
84% of arrivals were from the east, 12% north, and 4% south.

Daytime vs. Nighttime: Approximately 85% of all *departures* and 89% of all *arrivals* occurred during the daytime hours.

LAS Operations & Runway Use by Non-Large Air Carriers - (Exhibit 5)

Overall:	 84 daily <i>departures</i>⁴ – a 20% decrease from 2011 and 7% decrease from 2010. 64% of departures were to the south, 17% west, 17% north, and 2% east. 100 daily <i>arrivals</i> – a 7% decrease from 2011 and 8% decrease from 2010. 64% of arrivals were from the north, 18% east, 17% south, and 1% west.
Daytime:	 76 daily <i>departures</i>⁵ – a 23% decrease from 2011 and an 8% decrease from 2010. 63% of departures were to the south, 18% north, 17% west, and 2% east. 93 daily <i>arrivals</i> – a 9% decrease from 2011 and a 10% decrease from 2010. 64% of arrivals were from the north, 18% south, 18% east, and 1% west.
Nighttime:	 9 daily departures⁶ – a 10% increase from 2011 and a 1% increase from 2010. 74% of departures were to the south, 16% west, 9% north, and 1% east. 8 daily arrivals – a 25% increase from 2011 and a 17% increase from 2010. 72% of arrivals were from the north, 17% east, 10% south, and <1% west.

Daytime vs. Nighttime: Approximately 90% of all *departures* and 92% of all *arrivals* occurred during the daytime hours.

¹ Note: Due to the location of the radar south of Sunset Road, and the angle of the radar signal to avoid ground clutter, some aircraft that depart to the north from LAS are not captured until well north of Tropicana Avenue. Therefore, the AirScene application, used to determine runway use and traffic counts, does not tag these operations as either occurring at LAS or as a departure. Thus, total departure counts may be less than what likely occurred.

² See footnote #1.

³ See footnote #1.

⁴ See footnote #1.

⁵ See footnote #1.

⁶ See footnote #1.

Operations by Corridor for Helicopter Tours - (Exhibit 6)

Tropicana: 117 daily *departures* - a 5% decrease from 2011 and a 1% decrease from 2010.

Charleston: 117 daily *arrivals* - a 4% decrease from 2011 and no change from 2010.

Strip: 37 daily touch and go's - an 8% increase from 2011 and a 10% increase from 2010.

Daytime vs. Nighttime: Approximately 97% of all helicopter tour operations occurred during the daytime hours.

LAS Fleet Mix for All Aircraft Types - (Exhibit 7)

- **Heavies:** Very large air carrier turbine-driven aircraft (those weighing 300,000 lbs. or more) accounted for 2% of the daily traffic.
- Large: Large air carrier turbine-driven aircraft (those weighing more than 75,000 lbs. and less than 300,000 lbs.) accounted for 64% of the daily traffic.
- **Medium:** *Medium* turbine-driven aircraft (those weighing more than 41,000 lbs. and less than 75,000 lbs.) accounted for 1% of the daily traffic.
- **Small: Small** turbine-driven aircraft (those weighing 41,000 lbs. or less) accounted for 8% of the daily traffic.
- Military: Military turbine-driven aircraft accounted for less than 1% of the daily traffic.
- Non-Jet: *Piston-driven* aircraft and unassigned aircraft types accounted for 4% of the daily traffic.

Helis: *Touring helicopters* accounted for 21% of the daily traffic.

Noisier Aircraft Types: The hush-kitted Boeing 727 aircraft and Boeing 737 (100 & 200 series) aircraft accounted for no operations per day.

LAS General Departure Direction for Large Aircraft - (Exhibit 8)

- **Primary:** In 2012, 78% departed to the *west* (from LAS's primary departure runways). This figure was 64% in 2011 and 59% in 2010.
- Secondary: In 2012, 4% departed to the *south* (from LAS's secondary departure runways). This figure was 13% in 2011 and 14% in 2010.
- Alternate 1: In 2012, 16% departed to the *north* (from LAS's alternate departure runways). This figure was 17% in 2011 and 21% in 2010.
- Alternate 2: In 2012, 2% departed to the *east* (from LAS's alternate departure runways). This figure was 7% in 2011 and 7% in 2010.

Gate Compliance for Large Aircraft and Helicopters - (Exhibit 9)

SVHS: In 2012, 95% of the large air carrier aircraft (excluding those destined to the Nevada Test Site) that departed to the west from Runways 25L or 25R and made a left-hand turn were within 0.3 NM of *Sierra Vista High School* (SVHS). This figure was 94% in 2011 and 91% in 2010.

The SVHS "compliance gate" is located southwest of Warm Springs Rd. and Buffalo Dr., approximately 5 miles due west and 1.5 miles due south of the extended runway centerline of Runways 25L and 25R. This gate was established along an existing noise abatement flight track which requests pilots to proceed runway heading to 3 nautical miles from the Las Vegas very-high frequency omnidirectional range tactical air navigation (VORTAC) facility before turning left (or towards the south) - where large air carrier aircraft have historically been encouraged to operate. This noise abatement flight track avoids communities impacted by aircraft turning early along this corridor (like the Nevada Trails community) and aircraft turning late along this corridor (like the Rhodes Ranch community).

Peace: In 2012, 96% of the large air carrier aircraft (excluding those destined to the Nevada Test Site) that departed to the west from Runways 25L or 25R and made a right-hand turn were within 0.3 NM of the intersection of *Peace Way & Summers Shade Street*. This figure was 95% in 2011 and 92% in 2010.

The Peace "compliance gate" is located northeast of Tropicana Ave. and I-215, approximately 6 miles due west and 2 miles due north of the extended runway centerline of Runways 25L and 25R. This gate was also established along an existing noise abatement flight track which requests pilots to proceed runway heading to 4 nautical miles from the Las Vegas VORTAC before turning right (or towards the north) - where large air carrier aircraft have historically been encouraged to operate. This noise abatement flight track avoids communities impacted by aircraft turning early along this corridor (like the Spanish Trail community) and aircraft turning late along this corridor (like the South community).

Pebble: In 2012, 97% of the large air carrier aircraft (excluding those destined to the Nevada Test Site) that departed to the south from Runways 19L or 19R were within 0.3 NM of the intersection of *Pebble Road & Arville Street*. This figure was 99% in 2011 and 95% in 2010.

The Pebble "compliance gate" is located southeast of Blue Diamond Rd. and Decatur Blvd., approximately 4 miles due south by southwest of the extended runway centerline of Runways 19L and 19R. This gate was also established along an existing noise abatement flight track which requests pilots to proceed runway heading to 3 nautical miles from the Las Vegas VORTAC before turning - where large air carrier aircraft have historically been encouraged to operate. This noise abatement flight track avoids communities impacted by aircraft turning early along this corridor (like the Warm Springs Estates community) and aircraft turning late along this corridor (like the Southern Highlands community).

UNLV: In 2012, 82% of the large air carrier aircraft that departed to the north from Runways 01L or 01R were within 0.3 NM of the *UNLV sports complex*. This figure was 81% in 2011 and 78% in 2010.

The UNLV "compliance gate" is located southeast of Flamingo Rd. and Paradise Rd., approximately 1 mile due north by northeast of the extended runway centerline of Runways 01L and 01R. This gate was also established along an existing noise abatement flight track which requests pilots to proceed runway heading to 2 nautical miles from the Las Vegas VORTAC before turning - where large air carrier aircraft have historically been encouraged to operate. This noise abatement flight track avoids communities impacted by aircraft turning early along this corridor, located due east and due west of UNLV.

Boulder: In 2012, 96% of the large air carrier aircraft that departed to the north from Runways 07L or 07R were within 0.3 NM of the extended runway centerline, near *Boulder Highway*. This figure was 96% in 2011 and 92% in 2010.

The Boulder Hwy. "compliance gate" is located southeast of Russell Rd. and I-93/95, approximately 7 miles due east of the extended runway centerline of Runways 07L and 07R. This gate was also established along an existing noise abatement flight track which requests pilots to proceed runway heading to 7 nautical miles from the Las Vegas VORTAC before turning - where large air carrier aircraft have historically been encouraged to operate. This noise abatement flight track avoids communities impacted by aircraft turning early along this corridor (like the Green Valley community, located in the City of Henderson, and older neighborhoods located north of Patrick Ln.).

Hualapai: In 2012, 94% of the large air carrier aircraft destined to the Nevada Test Site that departed to the west from Runways 25L or 25R were within 0.3 NM of the extended runway centerline, near *Hualapai Way*. This figure was not available in 2011 or 2010.

The Hualapai Way "compliance gate" is located northeast of Sunset Rd. and Hualapai Way, approximately 7 miles due west of the extended runway centerline of Runways 25L and 25R. This gate was established in May 2011 along a new noise abatement flight track which requests pilots of aircraft destined to the Nevada Test Site to proceed runway heading to 7 nautical miles from the Las Vegas VORTAC before turning. This noise abatement flight track avoids communities impacted by aircraft turning early along this corridor (like the Spanish Trail community and the Summerlin South community).

Eastern: In 2012, 99% of the touring helicopters destined east of the Las Vegas Valley were within 500 feet of the intersection of *Tropicana Avenue & Eastern Avenue*. This figure was 97% in 2011 and 97% in 2010.

The Eastern Ave. "compliance gate" is located at Tropicana Ave. and Eastern Ave, approximately 2 miles due west of their initial departure route. This gate was also established along an existing noise abatement flight track which requests helicopter pilots to proceed along the centerline of Tropicana Ave. until 10 nautical miles from the Las Vegas VORTAC before turning. This noise abatement flight track avoids communities impacted by helicopters located north and south of the corridor.

Hollywood: In 2012, 99% of the touring helicopters returning from areas east of the Las Vegas Valley were within 500 feet of the intersection of *Charleston Boulevard & Hollywood Boulevard*. This figure was 97% in 2011 and 93% in 2010.

The Hollywood Blvd. "compliance gate" is located at Charleston Blvd. and Los Feliz St., where their initial arrival route begins over the urbanized area of the Las Vegas Valley. This gate was also established along an existing noise abatement flight track which requests helicopter pilots to proceed along the centerline of Charleston Blvd. This noise abatement flight track avoids communities impacted by helicopters located north and south of the corridor.

Stratosphere: In 2012, 90% of the north-bound helicopters providing tours of the Las Vegas Strip were within 500 feet of the intersection of Oakey Boulevard & Las Vegas Boulevard, *northeast of the Stratosphere Tower*. This figure was 85% in 2011 and 66% in 2010.

The Stratosphere Tower "compliance gate" is located northeast of Sahara Avenue and Las Vegas Blvd., where an important turn in their fly-quietly routing structure begins near a historic portion of the urbanized area of the Las Vegas Valley.

The information denoted in this monthly summary represents **typical** residential complaints, flight activity, fleet mix, and gate compliance with the exception of increased helicopter complaints.

November 2012: 68 total complaints - a 62% increase from 2011 and a 10% increase from 2010. On average, each caller (or household) issued 2.6 calls. The most calls received from one household totaled 21.

Calls by Community - (Exhibits 1 and 3)

Majority (more than 50%): (Not applicable.)

Minority (between 10% and 50%): The *City of Henderson* community issued 30 calls (44%). (See October 2012 synopsis of typical aircraft overflight impacts on this community.)

The *Sunrise Manor* community issued 18 calls (27%). This community is typically impacted by aircraft departing to the north (from Runway 01L and Runway 01R).

The *Enterprise* community issued 7 calls (10%). This community is typically impacted by aircraft departing to the south (from Runway 19L and Runway 19R).

Repeat Caller Impact: Two households issued 49% (33 calls) of all the calls received in November 2012.

Calls by Operation - (Exhibit 2)

- **LAS:** 31% of the total calls received were due to *LAS* fixed-wing operations.
 - 10% were due to departures to the west from Runways 25L and 25R.
- **VGT:** 0% of the total calls received were due to **VGT** fixed-wing operations.
- **HND:** 2% of the total calls received were due to *HND* fixed-wing operations.
- **Helis:** 68% of the total calls received were due to *helicopter* operations (72% from two households).

LAS Operations & Runway Use by Large Air Carriers - (Exhibit 4)

- Overall: 406 daily departures⁷ an 11% decrease from 2011 and 8% decrease from 2010.
 93% of departures were to the west, 3% south, 2% north, and 1% east.
 452 daily arrivals a 2% decrease from 2011 and 1% decrease from 2010.
 87% of arrivals were from the east, 11% north, and 2% south.
- Daytime: 348 daily *departures⁸* a 13% decrease from 2011 and 10% decrease from 2010.
 93% of departures were to the west, 3% south, 2% north, and 1% east.
 404 daily *arrivals* a 3% decrease from 2011 and 3% decrease from 2010.
 - 87% of arrivals were from the east, 10% north, and 3% south.
- Nighttime: 59 daily *departures*⁹ a 3% increase from 2011 and 5% increase from 2010.
 96% of departures were to the west, 3% south, and 1% north.
 - 48 daily *arrivals* a 1% increase from 2011 and 17% increase from 2010.
 - 87% of arrivals were from the east, and 13% north.

Daytime vs. Nighttime: Approximately 86% of all *departures* and 89% of all *arrivals* occurred during the daytime hours.

LAS Operations & Runway Use by Non-Large Air Carriers - (Exhibit 5)

Overall:	 82 daily departures¹⁰ – a 12% decrease from 2011 and 5% decrease from 2010. 75% of departures were to the south, 21% west, 2% north, and 1% east. 96 daily arrivals – no change from 2011 and an 8% decrease from 2010. 80% of arrivals were from the north, 18% east, and 2% south.
Daytime:	 74 daily <i>departures</i>¹¹ – a 14% decrease from 2011 and 6% decrease from 2010. 75% of departures were to the south, 22% west, 2% north, and 1% east. 90 daily <i>arrivals</i> – no change from 2011 and 9% decrease from 2010. 79% of arrivals were from the north, 18% east, and 2% south.
Nighttime:	 8 daily <i>departures</i>¹² – a 16% increase from 2011 and 3% increase from 2010. 79% of departures were to the south, 18% west, 3% north, and 1% east. 6 daily <i>arrivals</i> – an 11% increase from 2011 and 2% increase from 2010.

• 81% of arrivals were from the north, 14% east, 5% south, and 1% west.

Daytime vs. Nighttime: Approximately 90% of all *departures* and 94% of all *arrivals* occurred during the daytime hours.

See footnote #1.

⁸ See footnote #1.

⁹ See footnote #1.

¹⁰ See footnote #1. 11 See footnote #1.

¹¹ See footnote #1.

¹² See footnote #1.

Operations by Corridor for Helicopter Tours - (Exhibit 6)

Tropicana: 99 daily *departures* – a 1% decrease from 2011 and 1% increase from 2010.

Charleston: 98 daily arrivals - a 5% increase from 2011 and a 4% increase from 2010.

Strip: 34 daily *touch and go's* - a 1% increase from 2011 and a 54% increase from 2010.

Daytime vs. Nighttime: Approximately 98% of all helicopter tour operations occurred during the daytime hours.

LAS Fleet Mix for All Aircraft Types - (Exhibit 7)

- **Heavies:** Very large air carrier turbine-driven aircraft (those weighing 300,000 lbs. or more) accounted for 2% of the daily traffic.
- Large: Large air carrier turbine-driven aircraft (those weighing more than 75,000 lbs. and less than 300,000 lbs.) accounted for 65% of the daily traffic.
- **Medium:** *Medium* turbine-driven aircraft (those weighing more than 41,000 lbs. and less than 75,000 lbs.) accounted for 1% of the daily traffic.
- **Small: Small** turbine-driven aircraft (those weighing 41,000 lbs. or less) accounted for 8% of the daily traffic.
- Military: Military turbine-driven aircraft accounted for less than 1% of the daily traffic.
- Non-Jet: *Piston-driven* aircraft and unassigned aircraft types accounted for 5% of the daily traffic.

Helis: Touring helicopters accounted for 19% of the daily traffic.

Noisier Aircraft Types: The hush-kitted Boeing 727 aircraft and Boeing 737 (100 & 200 series) aircraft accounted for no operations per day.

LAS General Departure Direction for Large Aircraft - (Exhibit 8)

- **Primary:** In 2012, 94% departed to the *west* (from LAS's primary departure runways). This figure was 73% in 2011 and 55% in 2010.
- Secondary: In 2012, 3% departed to the *south* (from LAS's secondary departure runways). This figure was 13% in 2011 and 13% in 2010.
- Alternate 1: In 2012, 2% departed to the *north* (from LAS's alternate departure runways). This figure was 12% in 2011 and 30% in 2010.
- Alternate 2: In 2012, 1% departed to the *east* (from LAS's alternate departure runways). This figure was 2% in 2011 and 2% in 2010.

Gate Compliance for Large Aircraft and Helicopters - (Exhibit 9)

- **SVHS:** In 2012, 94% of the large air carrier aircraft (excluding those destined to the Nevada Test Site) that departed to the west from Runways 25L or 25R and made a left-hand turn were within 0.3 NM of *Sierra Vista High School* (SVHS). This figure was 93% in 2011 and 92% in 2010. (See October 2012 synopsis for specific location of the SVHS gate.)
- Peace: In 2012, 98% of the large air carrier aircraft (excluding those destined to the Nevada Test Site) that departed to the west from Runways 25L or 25R and made a right-hand turn were within 0.3 NM of the intersection of *Peace Way & Summers Shade Street*. This figure was 96% in 2011 and 92% in 2010. (See October 2012 synopsis for specific location of the Peace gate.)
- Pebble: In 2012, 93% of the large air carrier aircraft (excluding those destined to the Nevada Test Site) that departed to the south from Runways 19L or 19R were within 0.3 NM of the intersection of *Pebble Road & Arville Street*. This figure was 98% in 2011 and 95% in 2010. (See October 2012 synopsis for specific location of the Pebble gate.)
- **UNLV:** In 2012, 83% of the large air carrier aircraft that departed to the north from Runways 01L or 01R were within 0.3 NM of the *UNLV sports complex*. This figure was 78% in 2011 and 77% in 2010. (See October 2012 synopsis for specific location of the UNLV gate.)
- **Boulder:** In 2012, 99% of the large air carrier aircraft that departed to the north from Runways 07L or 07R were within 0.3 NM of the extended runway centerline, near *Boulder Highway*. This figure was 98% in 2011 and 92% in 2010. (See October 2012 synopsis for specific location of the Boulder Hwy. gate.)
- Hualapai: In 2012, 92% of the large air carrier aircraft destined to the Nevada Test Site that departed to the west from Runways 25L or 25R were within 0.3 NM of the extended runway centerline, near *Hualapai Way*. This figure was not available in 2011 or 2010. (See October 2012 synopsis for specific location of the Hualapai gate.)
- **Eastern:** In 2012, 99% of the touring helicopters destined east of the Las Vegas Valley were within 500 feet of the intersection of *Tropicana Avenue & Eastern Avenue*. This figure was 97% in 2011 and 96% in 2010. (See October 2012 synopsis for specific location of the Eastern gate.)
- Hollywood: In 2012, 93% of the touring helicopters returning from areas east of the Las Vegas Valley were within 500 feet of the intersection of *Charleston Boulevard & Hollywood Boulevard*. This figure was 97% in 2011 and 91% in 2010. (See October 2012 synopsis for specific location of the Hollywood gate.)
- Stratosphere: In 2012, 88% of the north-bound helicopters providing tours of the Las Vegas Strip were within 500 feet of the intersection of Oakey Boulevard & Las Vegas Boulevard, *northeast of the Stratosphere Tower*. This figure was 85% in 2011 and 64% in 2010. (See October 2012 synopsis for specific location of the Stratosphere gate.)

The information denoted in this monthly summary represents **typical** residential complaints, flight activity, fleet mix, and gate compliance with the exception of increased helicopter complaints.

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December 2012: 65 total complaints – a 30% increase from 2011 and a 12% increase from 2010. On average, each caller (or household) issued 2.7 calls. The most calls received from one household totaled 15.

Calls by Community - (Exhibits 1 and 3)

Majority (more than 50%): (Not applicable.)

Minority (between 10% and 50%): The **Spring Valley** community issued 21 calls (32%). (See October 2012 synopsis of typical aircraft overflight impacts on this community.)

The *City of Henderson* communities issued 18 calls (28%). (See October 2012 synopsis of typical aircraft overflight impacts on this community.)

The **Sunrise Manor** community issued 13 calls (20%). (See November 2012 synopsis of typical aircraft overflight impacts on this community.)

The *Paradise and Winchester* communities issued 11 calls (17%). (See October 2012 synopsis of typical aircraft overflight impacts on this community.)

Repeat Caller Impact: Three households issued 46% (30 calls) of all the calls received in December 2012.

Calls by Operation - (Exhibit 2)

- **LAS:** 46% of the total calls received were due to **LAS** fixed-wing operations.
 - 34% were due to departures to the north from Runways 01L and 01R (68% from one household.
- **VGT:** 0% of the total calls received were due to **VGT** fixed-wing operations.
- **HND:** 12% of the total calls received were due to *HND* fixed-wing operations.
- **Helis:** 42% of the total calls received were due to *helicopter* operations (56% from two households).

LAS Operations & Runway Use by Large Air Carriers - (Exhibit 4)

Overall: 391 daily *departures*¹³ – a 10% decrease from 2011 and 11% decrease from 2010.
72% of departures were to the west, 20% north, 4% south, and 4% east.
435 daily *arrivals* – a 2% decrease from 2011 and 2% decrease from 2010.

- 35 daily arrivals a 2% decrease from 2011 and 2% decrease from 201
- 80% of arrivals were from the east, 13% south, and 7% north.

Daytime: 334 daily departures¹⁴ – an 11% decrease from 2011 and 13% decrease from 2010.
70% of departures were to the west, 21% north, 5% east, and 4% south.
386 daily arrivals – a 3% decrease from 2011 and 3% decrease from 2010.

• 79% of arrivals were from the east, 14% south, and 7% north.

¹³ See footnote #1.

¹⁴ See footnote #1.

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Nighttime: 57 daily *departures*¹⁵ – a 1% increase from 2011 and 4% decrease from 2010.

- 81% of departures were to the west, 16% north, and 3% south.
- 50 daily *arrivals* a 4% increase from 2011 and 7% increase from 2010.
 - 86% of arrivals were from the east, 8% north, and 6% south.

Daytime vs. Nighttime: Approximately 86% of all *departures* and 89% of all *arrivals* occurred during the daytime hours.

LAS Operations & Runway Use by Non-Large Air Carriers - (Exhibit 5)

Overall:	 76 daily departures¹⁶ – a 13% decrease from 2011 and 10% decrease from 2010. 58% of departures were to the south, 20% north, 16% west, and 6% east. 88 daily arrivals – an 8% decrease from 2011 and 7% decrease from 2010. 58% of arrivals were from the north, 21% south, and 21% east.
Daytime:	 69 daily <i>departures</i>¹⁷ – a 14% decrease from 2011 and 10% decrease from 2010. 58% of departures were to the south, 21% north, 16% west, and 6% east. 83 daily <i>arrivals</i> – an 8% decrease from 2011 and 6% decrease from 2010. 57% of arrivals were from the north, 22% south, and 21% east.
Nighttime:	 7 daily departures¹⁸ – a 2% increase from 2011 and 7% decrease from 2010. 67% of departures were to the south, 17% west, and 16% north. 5 daily arrivals – an 11% decrease from 2011 and 19% decrease from 2010.

• 64% of arrivals were from the north, 24% east, 11% south, and 1% west.

Daytime vs. Nighttime: Approximately 91% of all *departures* and 94% of all *arrivals* occurred during the daytime hours.

Operations by Corridor for Helicopter Tours - (Exhibit 6)

Tropicana: 76 daily *departures* – a 12% increase from 2011 and 14% increase from 2010.

Charleston: 75 daily *arrivals* - a 13% increase from 2011 and 14% increase from 2010.

Strip: 28 daily *touch and go's* - a 15% increase from 2011 and 33% increase from 2010.

Daytime vs. Nighttime: Approximately 97% of all helicopter tour operations occurred during the daytime hours.

LAS Fleet Mix for All Aircraft Types - (Exhibit 7)

- **Heavies:** Very large air carrier turbine-driven aircraft (those weighing 300,000 lbs. or more) accounted for 2% of the daily traffic.
- Large: Large air carrier turbine-driven aircraft (those weighing more than 75,000 lbs. and less than 300,000 lbs.) accounted for 68% of the daily traffic.

¹⁵ See footnote #1.

¹⁶ See footnote #1.

¹⁷ See footnote #1.

¹⁸ See footnote #1.

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- **Medium:** *Medium* turbine-driven aircraft (those weighing more than 41,000 lbs. and less than 75,000 lbs.) accounted for 1% of the daily traffic.
- **Small: Small** turbine-driven aircraft (those weighing 41,000 lbs. or less) accounted for 9% of the daily traffic.
- Military: Military turbine-driven aircraft accounted for less than 1% of the daily traffic.
- **Non-Jet:** *Piston-driven* aircraft and unassigned aircraft types accounted for 4% of the daily traffic.

Helis: *Touring helicopters* accounted for 17% of the daily traffic.

Noisier Aircraft Types: The hush-kitted Boeing 727 aircraft and Boeing 737 (100 & 200 series) aircraft accounted for zero operations per day.

LAS General Departure Direction for Large Aircraft - (Exhibit 8)

- **Primary:** In 2012, 72% departed to the *west* (from LAS's primary departure runways). This figure was 60% in 2011 and 75% in 2010.
- Secondary: In 2012, 4% departed to the *south* (from LAS's secondary departure runways). This figure was 9% in 2011 and 11% in 2010.
- Alternate 1: In 2012, 20% departed to the *north* (from LAS's alternate departure runways). This figure was 28% in 2011 and 13% in 2010.
- Alternate 2: In 2012, 4% departed to the *east* (from LAS's alternate departure runways). This figure was 3% in 2011 and less than 1% in 2010.

Gate Compliance for Large Aircraft and Helicopters - (Exhibit 9)

- **SVHS:** In 2012, 96% of the large air carrier aircraft (excluding those destined to the Nevada Test Site) that departed to the west from Runways 25L or 25R and made a left-hand turn were within 0.3 NM of *Sierra Vista High School* (SVHS). This figure was 93% in 2011 and 92% in 2010. (See October 2012 synopsis for specific location of the SVHS gate.)
- Peace: In 2012, 99% of the large air carrier aircraft (excluding those destined to the Nevada Test Site) that departed to the west from Runways 25L or 25R and made a right-hand turn were within 0.3 NM of the intersection of *Peace Way & Summers Shade Street*. This figure was 98% in 2011 and 94% in 2010. (See October 2012 synopsis for specific location of the Peace gate.)
- Pebble: In 2012, 96% of the large air carrier aircraft (excluding those destined to the Nevada Test Site) that departed to the south from Runways 19L or 19R were within 0.3 NM of the intersection of *Pebble Road & Arville Street*. This figure was 98% in 2011 and 95% in 2010. (See October 2012 synopsis for specific location of the Pebble gate.)
- **UNLV:** In 2012, 83% of the large air carrier aircraft that departed to the north from Runways 01L or 01R were within 0.3 NM of the *UNLV sports complex*. This figure was 82% in 2011 and 80% in 2010. (See October 2012 synopsis for specific location of the UNLV gate.)

- **Boulder:** In 2012, 97% of the large air carrier aircraft that departed to the north from Runways 07L or 07R were within 0.3 NM of the extended runway centerline, near *Boulder Highway*. This figure was 93% in 2011 and 100% in 2010. (See October 2012 synopsis for specific location of the Boulder Hwy. gate.)
- Hualapai: In 2012, 95% of the large air carrier aircraft destined to the Nevada Test Site that departed to the west from Runways 25L or 25R were within 0.3 NM of the extended runway centerline, near *Hualapai Way*. This figure was not available in 2011 or 2010. (See October 2012 synopsis for specific location of the Hualapai gate.)
- **Eastern:** In 2012, 98% of the touring helicopters destined east of the Las Vegas Valley were within 500 feet of the intersection of *Tropicana Avenue & Eastern Avenue*. This figure was 98% in 2011 and 97% in 2010. (See October 2012 synopsis for specific location of the Eastern gate.)
- Hollywood: In 2012, 99% of the touring helicopters returning from areas east of the Las Vegas Valley were within 500 feet of the intersection of *Charleston Boulevard & Hollywood Boulevard*. This figure was 98% in 2011 and 94% in 2010. (See October 2012 synopsis for specific location of the Hollywood gate.)
- Stratosphere: In 2012, 97% of the north-bound helicopters providing tours of the Las Vegas Strip were within 500 feet of the intersection of Oakey Boulevard & Las Vegas Boulevard, *northeast of the Stratosphere Tower*. This figure was 85% in 2011 and 76% in 2010. (See October 2012 synopsis for specific location of the Stratosphere gate.)

The information denoted in this monthly summary represents **typical** residential complaints, flight activity, fleet mix, and gate compliance with the exception of increased helicopter complaints.

Annual Noise Complaint Summaries

2012: 658 total complaints – an 18% increase from 2011 and a 1% increase from 2010. On average, each caller (or household) issued 3.8 calls. The most calls received from one household totaled 170.

Calls by Community - (Exhibits 1 and 3)

Majority (more than 50%): (Not applicable.)

Minority (between 10% and 50%): The *City of Henderson* communities issued 250 calls (38%). (See October 2012 synopsis of typical aircraft overflight impacts on this community.)

The *Paradise and Winchester* communities issued 131 calls (20%). (See October 2012 synopsis of typical aircraft overflight impacts on this community.)

The **Spring Valley** community issued 123 calls (19%). (See October 2012 synopsis of typical aircraft overflight impacts on this community.)

Repeat Caller Impact: One household issued 26% (170 calls) of all the calls received in 2012.

Calls by Operation - (Exhibit 2)

- **LAS:** 53% of the total calls received were due to *LAS* fixed-wing operations.
 - 23% were due to departures to the east from Runways 01L and 01R (53% from one household).
- **VGT:** 1% of the total calls received were due to **VGT** fixed-wing operations.
- **HND:** 5% of the total calls received were due to *HND* fixed-wing operations.
- Helis: 41% of the total calls received were due to *helicopter* operations (63% from one household).

LAS Operations & Runway Use by Large Air Carriers - (Exhibit 4)

- Overall: 434 daily departures¹⁹ a 7% decrease from 2011 and 4% decrease from 2010.
 69% of departures were to the west, 12% east, 11% north, and 8% south.
 469 daily arrivals a 1% decrease from 2011 and 2% increase from 2010.
 - 75% of arrivals were from the east, 14% north, 8% south and 4% west.
- Daytime: 367 daily departures²⁰ a 9% decrease from 2011 and 7% decrease from 2010.
 66% of departures were to the west, 14% east, 12% north, and 8% south.
 414 daily arrivals a 1% decrease from 2011 and no change from 2010.
 - 74% of arrivals were from the east, 14% north, 8% south, and 4% west.

Nighttime: 67 daily *departures*²¹ – a 3% increase from 2011 and 19% increase from 2010.

- 85% of departures were to the west, 8% north, 4% south, and 3% east.
- 56 daily *arrivals* a 1% increase from 2011 and 25% increase from 2010.
 - 81% of arrivals were from the east, 14% north, 4% south, and 1% west.

Daytime vs. Nighttime: Approximately 85% of all *departures* and 88% of all *arrivals* occurred during the daytime hours.

LAS Operations & Runway Use by Non-Large Air Carriers - (Exhibit 5)

Overall: 84 daily $departures^{22}$ – a 10% decrease from 2011 and 1% increase from 2010.

- 61% of departures were to the south, 14% west, 14% north, and 11% east.
 97 daily *arrivals* no change from 2011 and 1% increase from 2010.
 - 65% of arrivals were from the north, 17% east, 13% south, and 5% west.
- Daytime: 76 daily *departures*²³ an 11% decrease from 2011 and 1% decrease from 2010.
 60% of departures were to the south, 14% west, 14% north, and 12% east. 90 daily *arrivals* a 1% decrease from 2011 and 1% decrease from 2010.
 - 64% of arrivals were from the north, 17% east, 14% south, and 5% west.

¹⁹ See footnote #1.

²⁰ See footnote #1.

²¹ See footnote #1.

²² See footnote #1.

²³ See footnote #1.

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Nighttime: 8 daily departures²⁴ – a 1% increase from 2011 and 20% increase from 2010. 71% of departures were to the south, 17% west, 10% north, and 2% east.

- 7 daily *arrivals* an 8% increase from 2011 and 48% increase from 2010.
 - 73% of arrivals were from the north, 15% east, 10% south, and 2% west.

Daytime vs. Nighttime: Approximately 91% of all *departures* and 93% of all *arrivals* occurred during the daytime hours.

Operations by Corridor for Helicopter Tours - (Exhibit 6)

Tropicana: 106 daily *departures* – a 5% decrease from 2011 and 5% increase from 2010.

Charleston: 105 daily *arrivals* - a 5% decrease from 2011 and 6% increase from 2010.

Strip: 38 daily touch and go's - an 11% increase from 2011 and 32% increase from 2010.

Daytime vs. Nighttime: Approximately 96% of all helicopter tour operations occurred during the daytime hours.

LAS Fleet Mix for All Aircraft Types - (Exhibit 7)

- Heavies: Very large air carrier turbine-driven aircraft (those weighing 300,000 lbs. or more) accounted for 2% of the daily traffic.
- Large: Large air carrier turbine-driven aircraft (those weighing more than 75,000 lbs. and less than 300,000 lbs.) accounted for 65% of the daily traffic.
- **Medium:** *Medium* turbine-driven aircraft (those weighing more than 41,000 lbs. and less than 75,000 lbs.) accounted for 1% of the daily traffic.
- **Small: Small** turbine-driven aircraft (those weighing 41,000 lbs. or less) accounted for 8% of the daily traffic.
- Military: Military turbine-driven aircraft accounted for less than 1% of the daily traffic.
- Non-Jet: *Piston-driven* aircraft and unassigned aircraft types accounted for 5% of the daily traffic.

Helos: *Touring helicopters* accounted for 20% of the daily traffic.

Noisier Aircraft Types: The hush-kitted Boeing 727 aircraft and Boeing 737 (100 & 200 series) aircraft accounted for zero operations per day.

LAS General Departure Direction for Large Aircraft - (Exhibit 8)

Primary: In 2012, 68% departed to the *west* (from LAS's primary departure runways). This figure was 63% in 2011 and 65% in 2010.

Secondary: In 2012, 8% departed to the *south* (from LAS's secondary departure runways). This figure was 13% in 2011 and 10% in 2010.

²⁴ See footnote #1.

- Alternate 1: In 2012, 12% departed to the *north* (from LAS's alternate departure runways). This figure was 17% in 2011 and 15% in 2010.
- Alternate 2: In 2012, 13% departed to the *east* (from LAS's alternate departure runways). This figure was 7% in 2011 and 10% in 2010.

Gate Compliance for Large Aircraft and Helicopters - (Exhibit 9)

- **SVHS:** In 2012, 94% of the large air carrier aircraft (excluding those destined to the Nevada Test Site) that departed to the west from Runways 25L or 25R and made a left-hand turn were within 0.3 NM of *Sierra Vista High School* (SVHS). This figure was 94% in 2011 and 92% in 2010. (See October 2012 synopsis for specific location of the SVHS gate.)
- Peace: In 2012, 96% of the large air carrier aircraft (excluding those destined to the Nevada Test Site) that departed to the west from Runways 25L or 25R and made a right-hand turn were within 0.3 NM of the intersection of *Peace Way & Summers Shade Street*. This figure was 94% in 2011 and 92% in 2010. (See October 2012 synopsis for specific location of the Peace gate.)
- Pebble: In 2012, 97% of the large air carrier aircraft (excluding those destined to the Nevada Test Site) that departed to the south from Runways 19L or 19R were within 0.3 NM of the intersection of *Pebble Road & Arville Street*. This figure was 97% in 2011 and 95% in 2010. (See October 2012 synopsis for specific location of the Pebble gate.)
- **UNLV:** In 2012, 81% of the large air carrier aircraft that departed to the north from Runways 01L or 01R were within 0.3 NM of the *UNLV sports complex*. This figure was 80% in 2011 and 52% in 2010. (See October 2012 synopsis for specific location of the UNLV gate.)
- **Boulder:** In 2012, 97% of the large air carrier aircraft that departed to the north from Runways 07L or 07R were within 0.3 NM of the extended runway centerline, near *Boulder Highway*. This figure was 96% in 2011 and 95% in 2010. (See October 2012 synopsis for specific location of the Boulder Hwy. gate.)
- **Hualapai:** In 2012, 93% of the large air carrier aircraft destined to the Nevada Test Site that departed to the west from Runways 25L or 25R were within 0.3 NM of the extended runway centerline, near *Hualapai Way*. This figure was not available in 2011 or 2010. (See October 2012 synopsis for specific location of the Hualapai gate.)
- **Eastern:** In 2012, 98% of the touring helicopters destined east of the Las Vegas Valley were within 500 feet of the intersection of *Tropicana Avenue & Eastern Avenue*. This figure was 97% in 2011 and 97% in 2010. (See October 2012 synopsis for specific location of the Eastern gate.)
- Hollywood: In 2012, 98% of the touring helicopters returning from areas east of the Las Vegas Valley were within 500 feet of the intersection of *Charleston Boulevard & Hollywood Boulevard*. This figure was 96% in 2011 and 94% in 2010. (See October 2012 synopsis for specific location of the Hollywood gate.)
- Stratosphere: In 2012, 87% of the north-bound helicopters providing tours of the Las Vegas Strip were within 500 feet of the intersection of Oakey Boulevard & Las Vegas Boulevard, *northeast of the Stratosphere Tower*. This figure was 83% in 2011 and 61% in 2010. (See October 2012 synopsis for specific location of the Stratosphere gate.)

Calls by Month - (Exhibit 10)

Seasonal Trends: The majority of the calls received for 2012 occurred in September thru December (42% of the total number of complaint calls received). The vast majority of calls received were associated with wind conditions from the north as well as helicopter tour group operations. While historical weather conditions for the Las Vegas Valley reflect the majority of departures from LAS that utilize Runway 25L and Runway 25R whenever wind and weather conditions dictate, the FAA will utilize a variety of runway configurations to better manage traffic levels in a safe and efficient manner. Additionally, when weather conditions are temperate and residents opt to leave their windows and doors open during the spring and fall months, the number of noise complaints tends to increase, as indicated on the exhibit.

Calls by Time of Day - (Exhibit 11)

Daytime versus Nighttime: Approximately 88% of the total calls received by the CCDOA were issued between the hours of 7 AM and 10 PM while the remaining 12% were received between the hours of 10 PM and 7 AM.

Calls by Airport/Operation - (Exhibit 12)

Airport Trends: A majority (53%) of the total calls received in 2012 were attributed to LAS operations. A total of (41%) of the total calls received in 2012 were attributed to helicopter operations.

Calls by Community - (Exhibit 13)

Community Trends: A majority of the total calls (77%) were shared from three communities: *Henderson, Paradise and Winchester, and Spring Valley.* The *Henderson* community issued 38% of the calls; the *Paradise and Winchester* communities issued approximately 20% of the calls; and the *Spring Valley* community issued approximately 19% of the calls. Approximately 39% of the calls received from *Paradise, Winchester* and *Spring Valley* were attributed to northbound departures from Runway 01R. However, 31% of the total 254 calls received from these two communities are from one household, which were attributed to increased departures to the north from LAS. Of the 38% (250 calls) from the *Henderson* community, 68% (170 calls) were issued from one Lake Las Vegas resident, and attributed to helicopter flights.

Calls by LAS Operations - (Exhibit 14)

LAS Trends: The majority (42%) of the total calls received were associated with non-typical increased departures to the north from Runways 01R and 01L.

Other Notable Issues

Helicopter Operator Users Meeting: On December 13, 2012, DOA staff members met with FAA, local helicopter tour operators, and a representative from Commissioner Scow's office to discuss noise complaints tied to helicopter operations, route compliance, and operational growth. Attendees also discussed a proposal, submitted by a resident of the Lake Las Vegas Community, outlining a routing change to redirect helicopter overflights. After careful discussion it was agreed the proposed route was less efficient, would introduce other residents of Lake Las Vegas to noise they previously were not exposed to, and would reduce the overall margin of safety as compared to the existing route.

Presidential Visit: From October 1, 2012 thru October 3, 2012, mandatory airspace and traffic modifications were implemented in preparation of a short-term presidential visit. The modifications,

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developed by FAA and Transportation Security Agency personnel, directly impacted helicopter tour operations. All helicopters and fixed-wing aircraft conducting tours for the duration of the presidential visit utilized an alternate route and conducted their operations from the Jean Airport to ensure compliance with the airspace restrictions.

Terminal 3 Grand Opening/New McCarran Website: On June 27, 2012, the DOA welcomed the opening of the new Terminal 3. Built over the course of five years, at a cost of \$2.4 billion dollars, this terminal provides passengers service through seven international and seven domestic gates. This 1.9 million square foot facility enables the DOA to better serve passengers traveling to and from international destinations. In addition to the grand opening, the DOA launched its newly refined webpage which provides a variety of useful information to include noise abatement measures implemented by the DOA.

Modified Departure Procedure Compliance – Update: As stated in a previous noise report dated May 2, 2011, an operator obtained approval from the FAA to enact a modified "southbound to westbound" departure procedure. This procedure permits aircraft to depart Runway 19R/L (southbound) and initiate an immediate right turn upon reaching an altitude of 400 feet above ground level (AGL). This right turn positions the aircraft on an extended Runway 25R/L heading, giving the appearance as if the aircraft departed from Runway 25R/L (westbound). This procedure was designed to maintain the continuity of LAS noise abatement policies tied to departures to the south between the hours of 8PM and 8AM (Noise Abatement Measure #1: Informal preferential runway use program) and operating within community-friendly flight corridors (Noise Abatement Measure #2: Ensure aircraft fly over historic flight corridors). The procedure is closely monitored by the FAA and the Noise Office to ensure safety, efficiency, and compliance. Compliance, which is determined by how well the operator adhered to the preferred, non-regulated departure corridor and the percent of aircraft that followed a 7.5 DME west-bound profile has steadily grown from 78%, as measured in May of 2011 to an annual rate of 94% for 2012.

Voluntary Land Acquisition Program: The CCDOA received approval from the Board of County Commissioners (BOCC) to implement a multi-year, multi-grant voluntary land acquisition program. Over 400 parcels are eligible to participate in the program, and the number of impacted dwelling units exceeding one thousand. The implementation of this program addresses two of LAS's noise mitigation policies of land acquisition in neighborhoods impacted by elevated noise levels (Noise Mitigation Measure #1: Acquire airport-incompatible land uses in the 70 DNL and higher, and Noise Mitigation Measure #2: Acquire properties developed with airport-incompatible land uses in the 65 DNL and higher).

Safety and Security Threats: Any threats to DOA staff or an aircraft in flight are taken seriously, and such threats will be forwarded to the appropriate law enforcement agencies.

GCS:jj

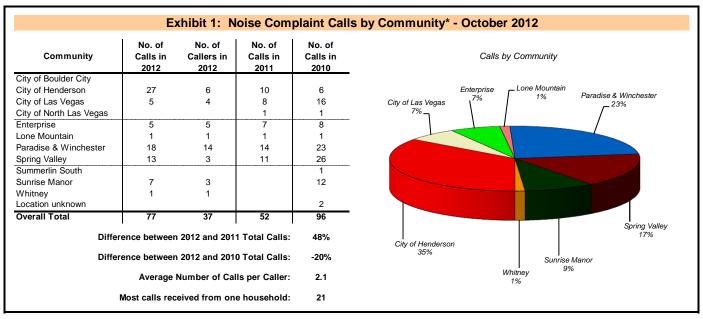
Attachments

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Distribution: Commissioner Brager, Chair Commissioner Sisolak, Vice-Chair Commissioner Collins Commissioner Weekly Rosemary Vassiliadis Donald G. Burnette Ralph LePore Harry Waters Teresa Motley Cecil Johnson Alan Pinkerton Dan Kezar Linda Healev Tucker Field Maureen Merry-Lamoureux

> Stephen J. Lloyd (FAA TRACON) Jim Burgan (FAA ATC) Jon Holman (FAA ATC) Charlie Halterman (HND Tower) Peter Yiakof (FAA FSDO) Bristol Ellington (COH) Josh Reid (COH) Elizabeth Fretwell (CLV) Vicki Mayes (CBC) Mayor Carolyn Goodman (CLV) Councilman Bob Beers (CLV) Councilman Bob Coffin (CLV) Councilwoman L. Tarkanian (CLV) Mayor Pro Tem S. Anthony (CLV) Councilman Ricki Barlow (CLV) Councilman Steven Ross (CLV) Bradford Jerbic, (CLV) Mayor Roger Tobler (CBC) Brok Armantrout (CBC) David Parks (Nevada State Assembly) J. Gordon Arkin (Foley & Lardner) John Williams (Ricondo) Douglas Pomeroy (FAA ADO) La Nea M. Conner (Boeing) Neal Phillips (Metro Wash. Air Auth.) Frank Fiori (CNLV) Michelle Plawecki (Detroit Metro Airport) James Davies (Sky Harbor Airport) Karen Everitt (Dallas City Hall) Thomas Miller (Nellis AFB) Raymond Chiang (FAA) Stephanie Garcia-Vause (COH) Andrew Powell (COH) William Ruggiero (FAA TRACON)

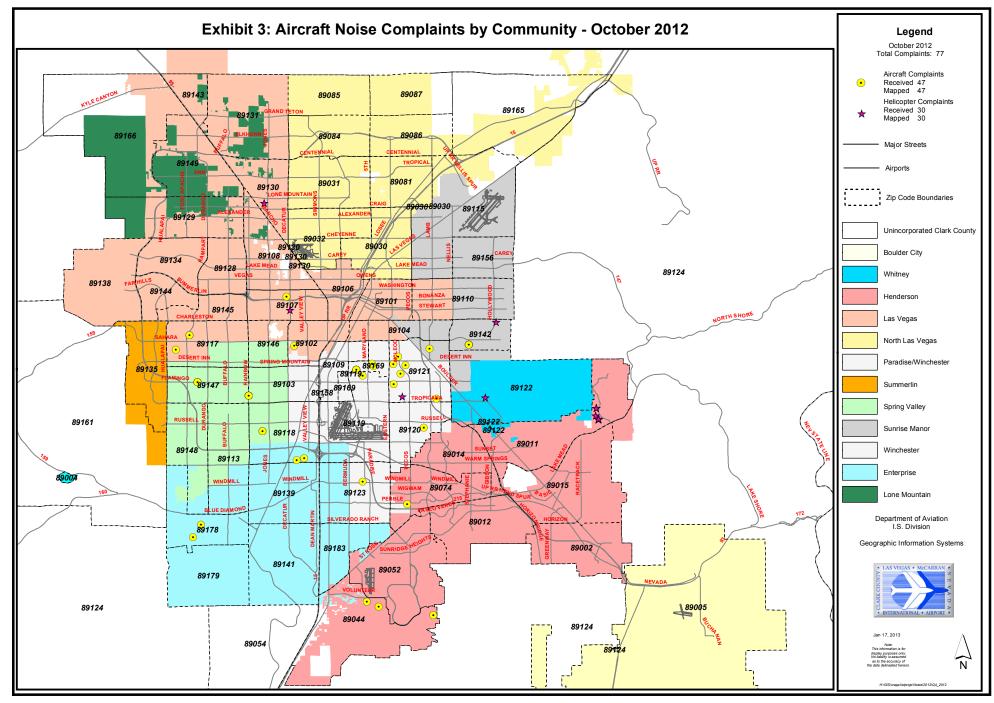
Commissioner Giunchigliani **Commissioner Brown** Commissioner Scow Joe Kubacki E. Lee Thomson Sam Ingalls Chris Jones Barbara Bolton Jeff Jacquart Charlie Hall Ben Czyzewski Dennis Anderson Tom Peterson Mark Silverstein Donna Bergstrom Benedict Czyzewski James Erbeck (CLV) Wayne M. Niimi (FAA ATC) Paul Alukonis (FAA FSDO) Nancy Myrick (FAA Tower Manager, NLVA) Sydney Lowe (University Libraries) Bob Brown (BBA) Lisa Butterfield (Reno-Tahoe Airport) Andrea Christensen (Denver Airport) Jennifer Lewis (Scottsdale Airport) Frank lacovino (Mass Port Authority) Jon Collette (Philadelphia Airport) Robert Butler (Papillon Helicopters) Christine Gerencher (American Airlines) Bert Ganoung (SFO) Nigel Turner (Heli USA Airways) San Diego Airport Noise Management Jeannie Denham (Citizen) Judge Bob Johnston (Citizen) Rov Fuhrmann (Metro Airports Commission) Tom Schaus (Sundance Helicopters) Brooke Satern (Port of Portland) Gary Brodt (Citizen) Capt. Amanda Ferrell (Nellis AFB) James P. Callahan (Nellis AFB) Stan Shepherd (SEATAC) Eric Sheng (Long Beach Airport) Jason Schwartz (Portland Airport) Todd Lobato (Nellis AFB) William Olivieri (Citizen) Samuel Carter (ITT) Steven Peacock (Dallas City Hall) Jacob Snow (COH) John Dietz (FAA TRACON)



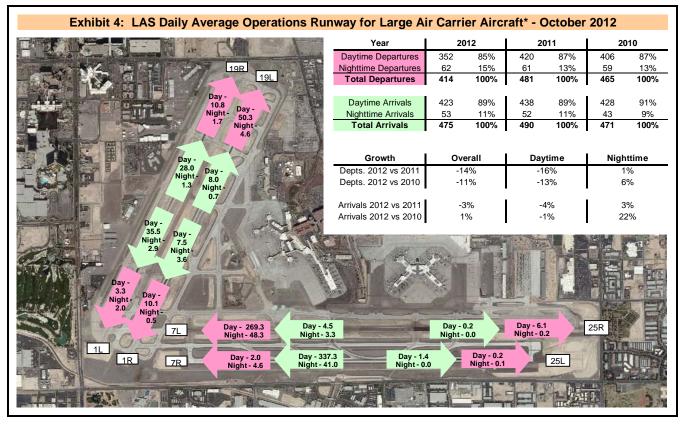
* See map on reverse side for community boundaries and location of known noise complaints.

	Exhi	bit 2: Nois	e Compla	aint Calls b	by Type of Operation - October 2012
Operation	No. of Calls in 2012	Percent of Overall Total	No. of Calls in 2011	No. of Calls in 2010	Calls by Operation 0 5 10 15 20 25 30
LAS 01R/L Arrivals			1		
LAS 07R/L Arrivals					
LAS 19R/L Arrivals	1	1.3%			
LAS 25R/L Arrivals	1	1.3%	1	1	
LAS 01R/L Departures	26	33.8%	24	44	
LAS 07R/L Departures	1	1.3%	3	5	
LAS 19R/L Departures	2	2.6%	4	8	
LAS 25R/L Departures	12	15.6%	6	21	
LAS Run-ups				6	
LAS GA					
LAS Other					
LAS Total	43	55.8%	39	85	
VGT 07 Arrivals					
VGT 12R/L Arrivals					
VGT 25 Arrivals					
VGT 30R/L Arrivals					
VGT 07 Departures					
VGT 12R/L Departures					
VGT 25 Departures					
VGT 30R/L Departures					
VGT Run-ups					
VGT GA			2		
VGT Other					
VGT Total	0	0.0%	2	0	
HND 17R/L Arrivals					
HND 35R/L Arrivals					
HND 35R/L Arrivals					
HND 35R/L Departures					
HND SSR/L Departures					
HND GA	4	5.2%	3	3	
HND Other	4	J.2 /0	5	5	21 calls from one household
HND Total	4	5.2%	3	3	
	-	0.2 /0	Ŭ	, č	
Helicopters**	30	39.0%	8	8	
Overall Total	77	100%	52	96	

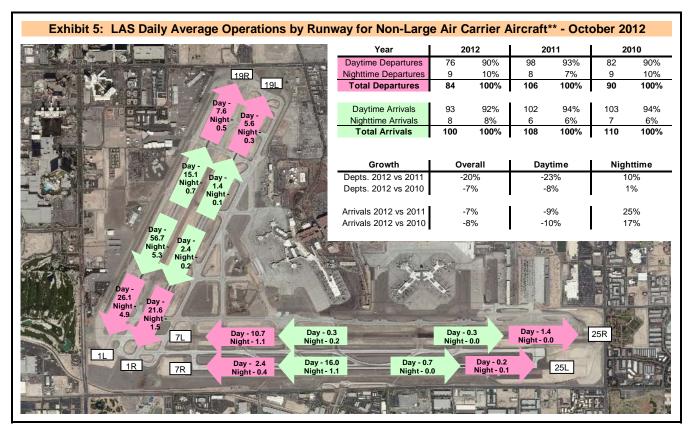
** Note that helicopter noise complaints are not tied to a specific facility since the operation cannot always be associated to a specific airport. Additionally, helicopter calls do not include those associated with operations conducted by the Metropolitan Police Department or those associated with operations conducted at non-DOA facilities.



2012 Noise Complaint Report



* Aircraft types: All aircraft with a maximum gross take of weight of at least 75,000 pounds, including but not limited to, A306, A310, A311, A318, A319, A320, A330, A340 B707, B717, B727, B737, B747, B757, B767, B777, CRJ7, CRJ9, DC8, DC9, DC10, E170, E190, HA4T, L1011, MD80, MD90, MD10, MD11, VC10.



** Aircraft types: All aircraft with a maximum gross take of weight less than 75,000 pounds, excluding helicopters.

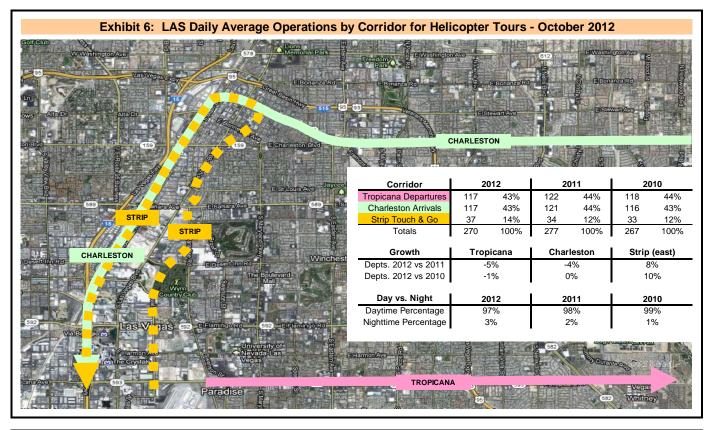
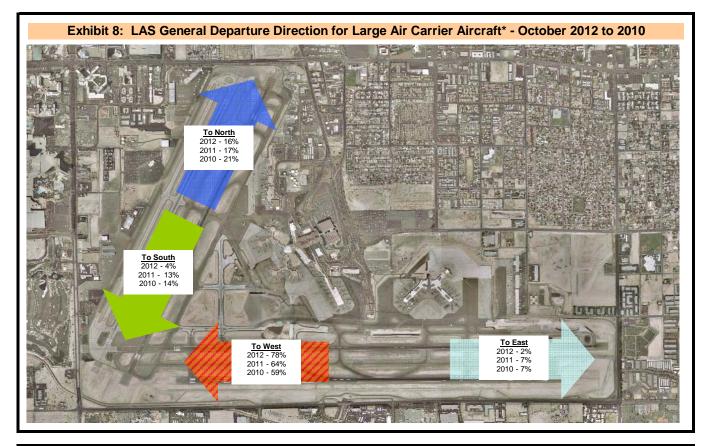
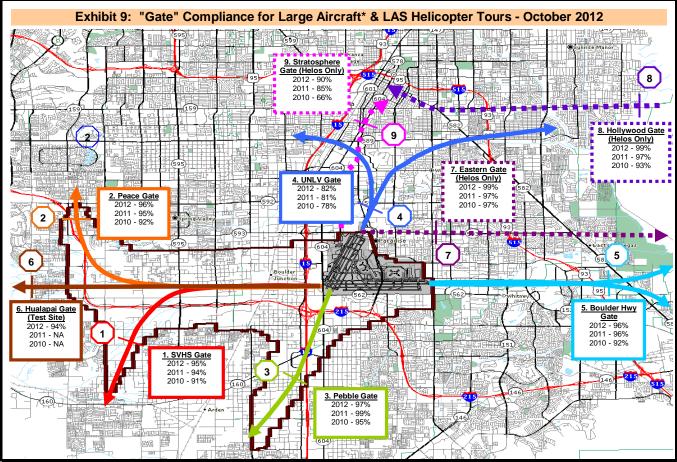


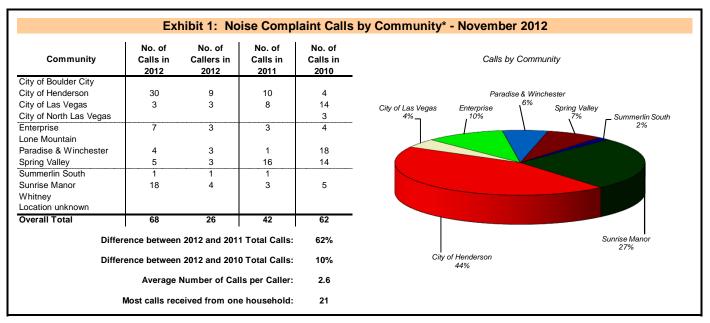
		Exhibit	7: LAS A	ircraft Arri	val	Fleet	: Mix	(* - C	Octob	per 2	012							
Operation	Daily Average in 2012	Percent of Overall Total	Daily Average in 2011	Daily Average in 2010	0	25	50	75	100	Fleet	-	175	200	225	250	275	300	325
A300s, A310s	1.03	0.1%	0.52	0.74														
A330s, A340s	3.10	0.4%	3.10	1.71	- Í													
B747s	2.32	0.3%	2.26	1.32	1													
B767s	4.65	0.6%	4.52	5.32	- Ť													
B777s	0.13	0.0%	0.00	1.00	Γ													
DC10, L1011, MD11	1.19	0.2%	0.90	0.90	1													
Misc. (B707s, DC8s, etc.)	0.00	0.0%	0.00	0.00														
Heavy Jets (>300,000 lbs.)	12.42	1.7%	11.29	11.00														
A318s, A319s A320s, A321s B717s B727s B737-100s, -200s B737-300s to -900s B757s BAC 111s, E170s, E190s CRJ7s, CRJ9s MD80s MD90s Misc. (Bae 146s, DC9s) Large Jets (>75,000 lbs.)	38.68 50.52 0.00 0.06 293.97 29.42 2.26 12.87 33.74 1.19 0.10 462.84	5.3% 6.9% 0.0% 0.0% 40.3% 4.0% 0.3% 1.8% 4.6% 0.2% 0.0% 63.5%	49.23 50.55 0.00 299.06 30.48 1.87 14.65 30.03 2.00 0.35 478.26	25.10 49.55 0.00 0.13 285.35 47.74 1.94 19.52 29.84 0.68 0.00 459.87														
Medium Jets (>41,000	9.16	1.3%	6.87	6.58														
Small Jets (<41,000 lbs.)	58.77	8.1%	63.84	54.39			-											
Military Jets	0.45	0.1%	0.81	0.35														
Non-Jets & Unknowns	32.00	4.4%	36.77	48.26	F	\rightarrow												
Helicopter Tours	153.19	21.0%	155.23	149.35														
Overall Total*	729	100%	753	730														

* Overall Total: Note that operation type and runway use counts are estimated by ITT Exelis AirScene.com Noise and Monitoring Operations (NOMS) system based on radar data. Due to limitations of radar data, information for aircraft weighing less than 75,000 lbs. is inexact.





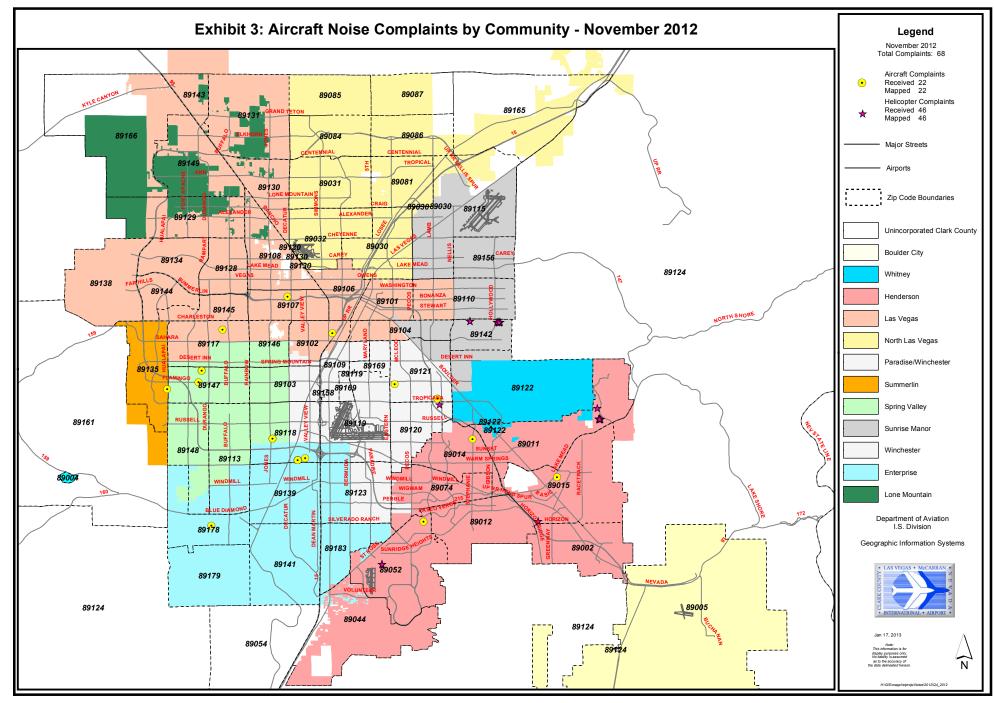
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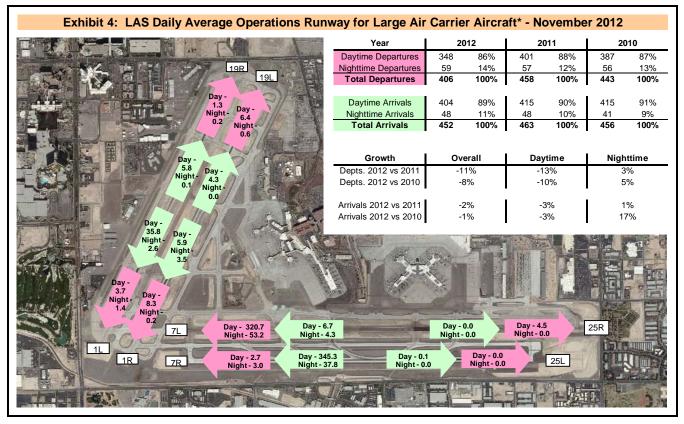
* See map on reverse side for community boundaries and location of known noise complaints.

	Exhib	it 2: Noise	Complai	nt Calls b	у Туре с	of Op	peration	on - N	lovem	ber 2	012				
Operation	No. of Calls in 2012	Percent of Overall Total	No. of Calls in 2011	No. of Calls in 2010	0	5	10	15	Calls b	y Opera 25	tion 30	35	40	45	50
LAS 01R/L Arrivals				1							l				
LAS 07R/L Arrivals															
LAS 19R/L Arrivals	2	2.9%									ł				
LAS 25R/L Arrivals	2	2.9%									ł				
LAS 01R/L Departures	2	2.9%	11	32							1				
LAS 07R/L Departures	2	2.9%									ł				
LAS 19R/L Departures	6	8.8%	3	5							1				
LAS 25R/L Departures	7	10.3%	14	13		5									
LAS Run-ups				1							1				
LAS GA															
LAS Other															
LAS Total	21	30.9%	28	52	-										
VGT 07 Arrivals															
VGT 12R/L Arrivals											1				
VGT 25 Arrivals															
VGT 30R/L Arrivals															
VGT 07 Departures											1				
VGT 12R/L Departures											1				
VGT 25 Departures															
VGT 30R/L Departures											1				
VGT Run-ups											1				
VGT GA				3											
VGT Other											ł				
VGT Total	0	0.0%	0	3											
HND 17R/L Arrivals															
HND 35R/L Arrivals															
HND 17R/L Departures															
HND 35R/L Departures															
HND Run-ups															
HND GA	1	1.5%	2	3											
HND Other			-				33 calls	from two	household	Is					
HND Total	1	1.5%	2	3			-	-1							
Helicopters**	46	67.6%	12	4						1					
Overall Total	68	100%	42	62											

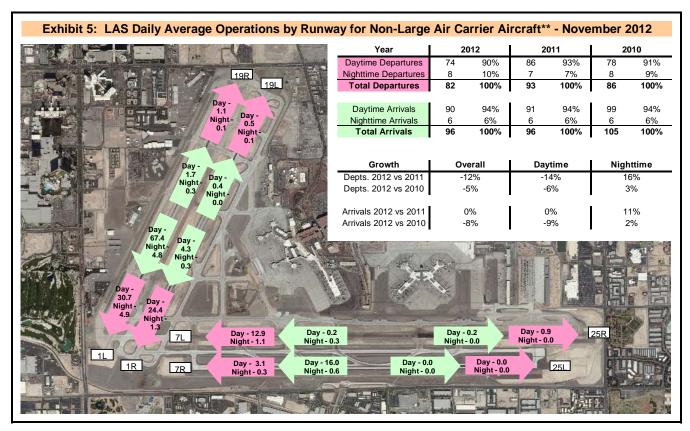
** Note that helicopter noise complaints are not tied to a specific facility since the operation cannot always be associated to a specific airport. Additionally, helicopter calls do not include those associated with operations conducted by the Metropolitan Police Department or those associated with operations conducted at non-DOA facilities.



2012 Noise Complaint Report



* Aircraft types: All aircraft with a maximum gross take of weight of at least 75,000 pounds, including but not limited to, A306, A310, A311, A318, A319, A320, A330, A340 B707, B717, B727, B737, B747, B757, B767, B777, CRJ7, CRJ9, DC8, DC9, DC10, E170, E190, HA4T, L1011, MD80, MD90, MD10, MD11, VC10.



** Aircraft types: All aircraft with a maximum gross take of weight less than 75,000 pounds, excluding helicopters.

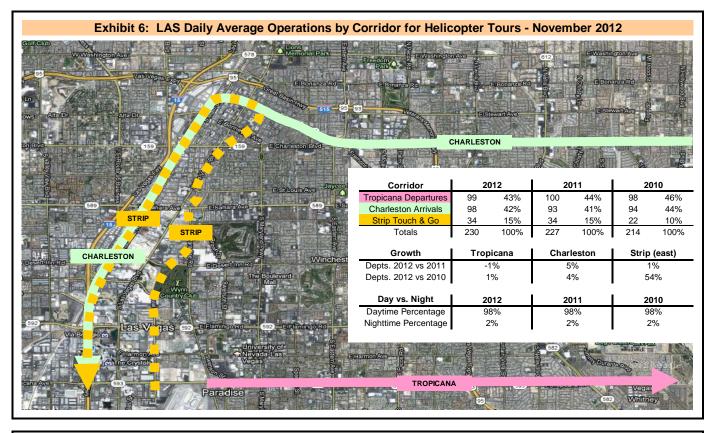
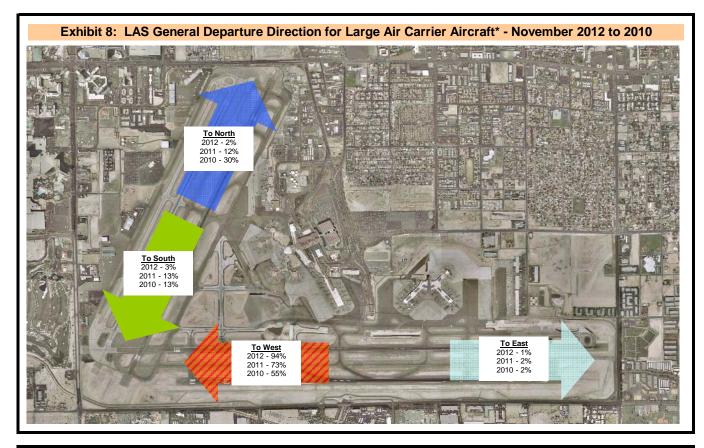
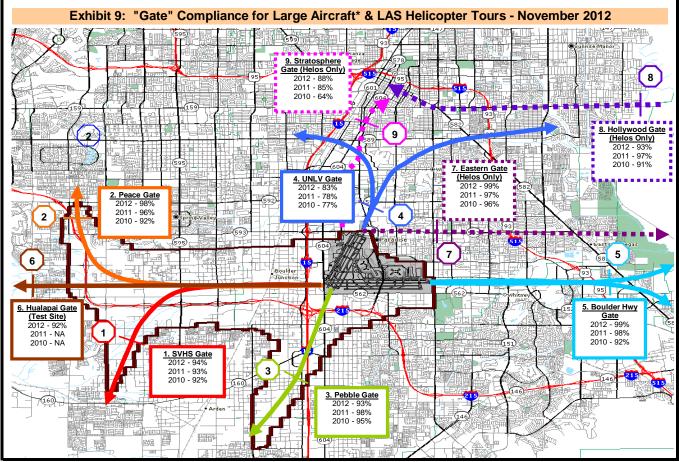


		Exhibit 7	: LAS Air	craft Arriv	al F	leet	Mix	* - No	overr	ıber	2012	2						
Operation	Daily Average in 2012	Percent of Overall Total	Daily Average in 2011	Daily Average in 2010	0	25	50	75	100	Fleet	Mix 150	175	200	225	250	275	300	325
A300s, A310s	0.93	0.1%	0.53	0.83														
A330s, A340s	2.27	0.3%	2.63	2.10	- i													
B747s	2.10	0.3%	2.30	1.17	ī													
B767s	4.70	0.7%	4.30	5.30	ĥ.													
B777s	0.77	0.1%	0.10	1.23	Г													
DC10, L1011, MD11	1.17	0.2%	1.03	0.87	i													
Misc. (B707s, DC8s, etc.)	0.00	0.0%	0.00	0.00	Ī													
Heavy Jets (>300,000 lbs.)	11.93	1.8%	10.90	11.50														
A318s, A319s	36.90	5.4%	43.27	24.97														
A320s, A321s	48.20	7.1%	47.93	47.90														
B717s	0.00	0.0%	0.00	0.00														
B727s	0.00	0.0%	0.03	0.03													1	
B737-100s, -200s	0.07	0.0%	0.07	0.00														
B737-300s to -900s	283.83	41.7%	285.30	279.70												<u> </u>		
B757s	22.73	3.3%	28.40	41.27							I			İ				
BAC 111s, E170s, E190s	0.03	0.0%	0.00	0.20														
CRJ7s, CRJ9s	11.73	1.7%	12.10	19.90														
MD80s	34.97	5.1%	32.53	28.80													1	
MD90s	1.83	0.3%	2.00	1.50													1	
Misc. (Bae 146s, DC9s)	0.07	0.0%	0.07	0.13													1	
Large Jets (>75,000 lbs.)	440.37	64.8%	451.70	444.40														
Medium Jets (>41,000	9.70	1.4%	6.60	6.13														
Small Jets (<41,000 lbs.)	54.83	8.1%	56.20	52.23			-											
Military Jets	0.37	0.1%	0.43	0.50														
Non-Jets & Unknowns	31.53	4.6%	33.03	46.17		<u> </u>												
Helicopter Tours	131.20	19.3%	126.80	116.00														
Overall Total*	680	100%	686	677														

* Overall Total: Note that operation type and runway use counts are estimated by ITT Exelis AirScene.com Noise and Monitoring Operations

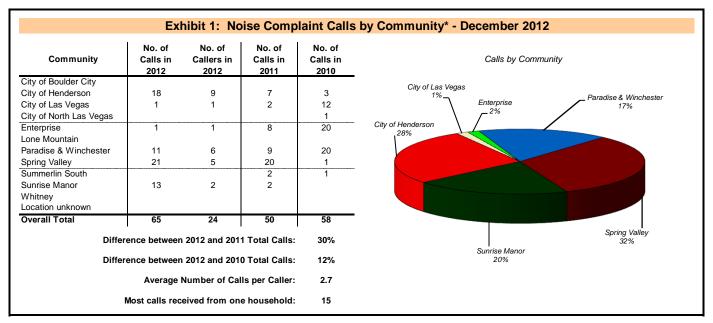
(NOMS) system based on radar data. Due to limitations of radar data, information for aircraft weighing less than 75,000 lbs. is inexact.





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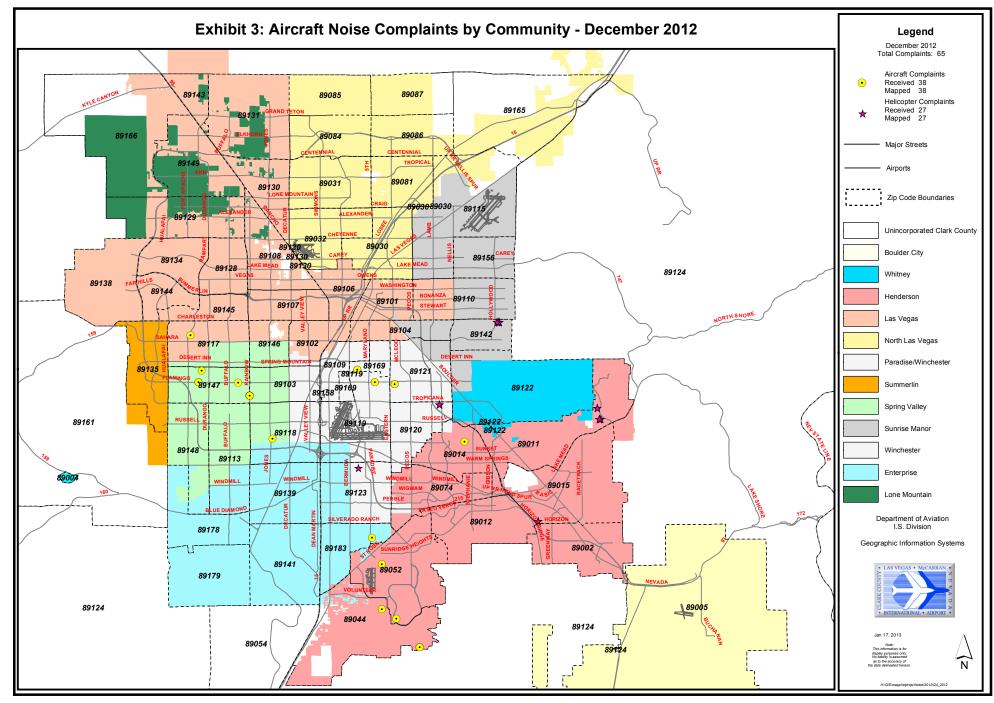
November 2012 Noise Complaint Report



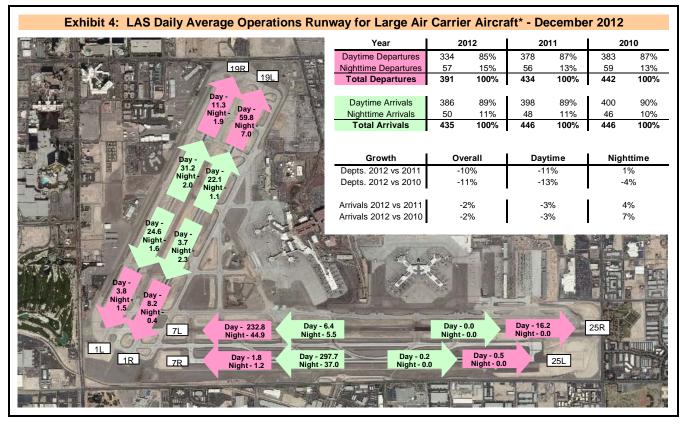
* See map on reverse side for community boundaries and location of known noise complaints.

	No. of	Percent of	No. of	No. of
Operation	Calls in	Overall	Calls in	Calls in
	2012	Total	2011	2010
AS 01R/L Arrivals				
LAS 07R/L Arrivals				
LAS 19R/L Arrivals				
LAS 25R/L Arrivals	1	1.5%		
LAS 01R/L Departures	22	33.8%	27	12
LAS 07R/L Departures	1	1.5%		
LAS 19R/L Departures			6	16
LAS 25R/L Departures	6	9.2%	5	15
LAS Run-ups				
LAS GA				
LAS Other		10.00/		
LAS Total	30	46.2%	38	43
OT 07 Autorit				
VGT 07 Arrivals				
VGT 12R/L Arrivals				
VGT 25 Arrivals				
/GT 30R/L Arrivals				
/GT 07 Departures /GT 12R/L Departures				
VGT 12R/L Departures				
VGT 25 Departures				
VGT 30R/L Departures				
VGT GA				1
VGT Other				'
VGT Total	0	0.0%	0	1
	Ū	0.070	Ū	
HND 17R/L Arrivals				
HND 35R/L Arrivals				
HND 17R/L Departures				
HND 35R/L Departures				
HND Run-ups				
HND GA	8	12.3%	1	2
HND Other	-			_
HND Total	8	12.3%	1	2
Helicopters**	27	41.5%	11	12
Overall Total	65	100%	50	58

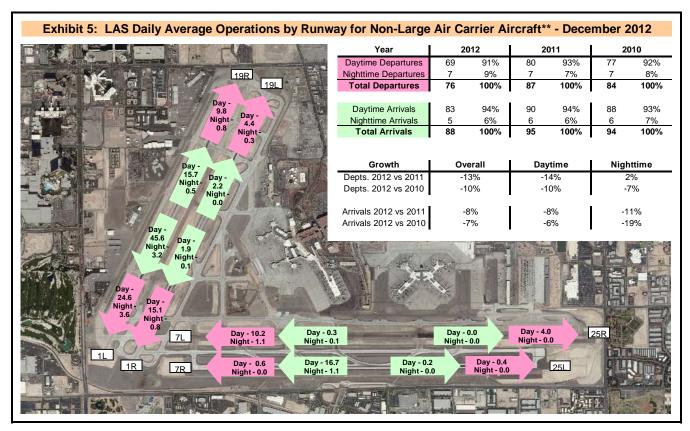
** Note that helicopter noise complaints are not tied to a specific facility since the operation cannot always be associated to a specific airport. Additionally, helicopter calls do nc include those associated with operations conducted by the Metropolitan Police Department or those associated with operations conducted at non-DOA facilities.



2012 Noise Complaint Report



* Aircraft types: All aircraft with a maximum gross take of weight of at least 75,000 pounds, including but not limited to, A306, A310, A311, A318, A319, A320, A330, A340 B707, B717, B727, B737, B747, B757, B767, B777, CRJ7, CRJ9, DC8, DC9, DC10, E170, E190, HA4T, L1011, MD80, MD90, MD10, MD11, VC10.



** Aircraft types: All aircraft with a maximum gross take of weight less than 75,000 pounds, excluding helicopters.

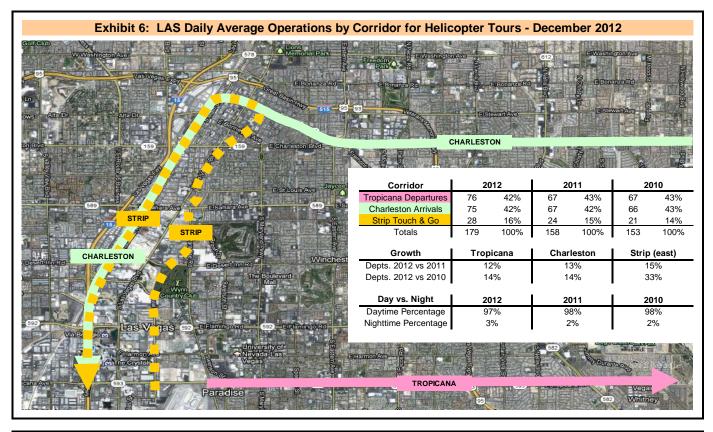
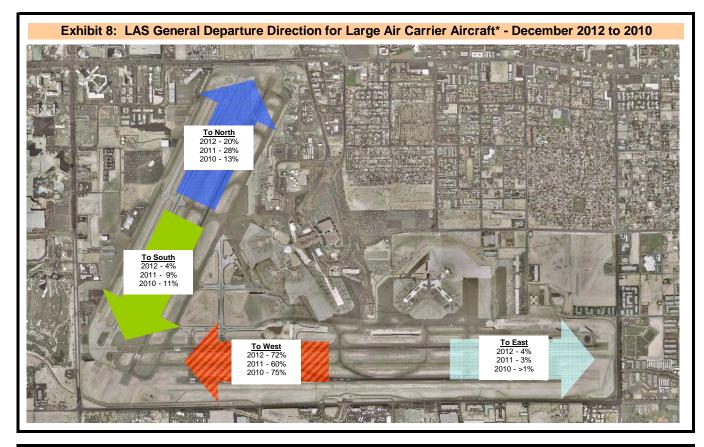
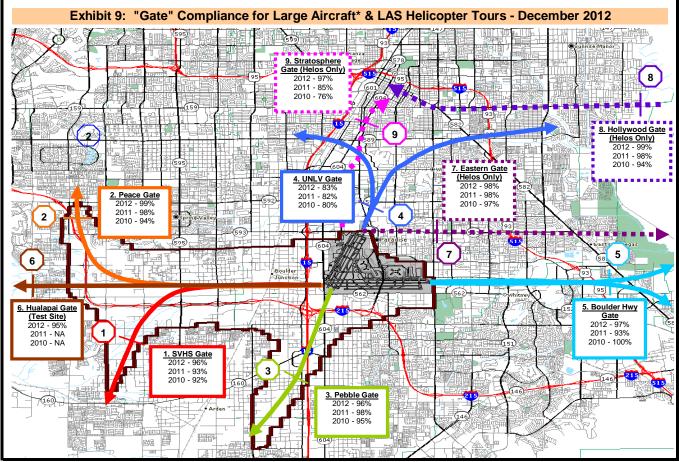


		Exhibit 7	: LAS Air	craft Arriv	/al Fle	et N	Nix*	- De	ecem	ber	2012	2						
Operation	Daily Average in 2012	Percent of Overall Total	Daily Average in 2011	Daily Average in 2010	0	25	50	75	100	Fleet	Mix 150	175	200	225	250	275	300	325
A300s, A310s	0.58	0.1%	0.81	1.87		1	1			1								
A330s, A340s	2.32	0.4%	2.58	2.52	h									1				
B747s	1.68	0.3%	2.26	1.00	Ĩ													
B767s	3.26	0.5%	3.61	4.61	ĥ													
B777s	0.74	0.1%	0.26	1.10	ī													
DC10, L1011, MD11	1.32	0.2%	1.65	1.16	Í													
Misc. (B707s, DC8s, etc.)	0.00	0.0%	0.00	0.00	ſ													
Heavy Jets (>300,000 lbs.)	9.90	1.6%	11.16	12.26														
				_														
A318s, A319s	34.68	5.5%	39.81	26.35														
A320s, A321s	44.87	7.2%	44.84	47.26														
B717s	0.00	0.0%	0.00	0.00														
B727s	0.13	0.0%	0.29	0.10														
B737-100s, -200s	0.00	0.0%	0.00	0.10														
B737-300s to -900s	277.39	44.3%	274.13	278.35														
B757s	19.45	3.1%	26.23	29.48														
BAC 111s, E170s, E190s	0.00	0.0%	0.13	0.00														
CRJ7s, CRJ9s	12.61	2.0%	12.06	17.71														
MD80s	34.00	5.4%	34.84	32.74														
MD90s	2.26	0.4%	1.81	1.13														
Misc. (Bae 146s, DC9s)	0.10	0.0%	0.03	0.03														
Large Jets (>75,000 lbs.)	425.48	68.0%	434.16	433.26														
Medium Jets (>41,000	6.13	1.0%	6.74	6.03														
Small Jets (<41,000 lbs.)	53.52	8.5%	53.42	51.35			-											
Military Jets	0.32	0.1%	0.55	0.58														
Non-Jets & Unknowns	27.74	4.4%	34.55	36.39		7												
Helicopter Tours	103.00	16.5%	90.70	86.70														
Overall Total*	626	100%	631	627														

* Overall Total: Note that operation type and runway use counts are estimated by ITT Exelis AirScene.com Noise and Monitoring Operations

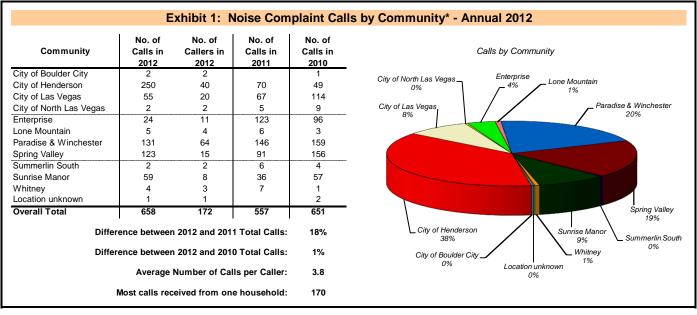
(NOMS) system based on radar data. Due to limitations of radar data, information for aircraft weighing less than 75,000 lbs. is inexact.





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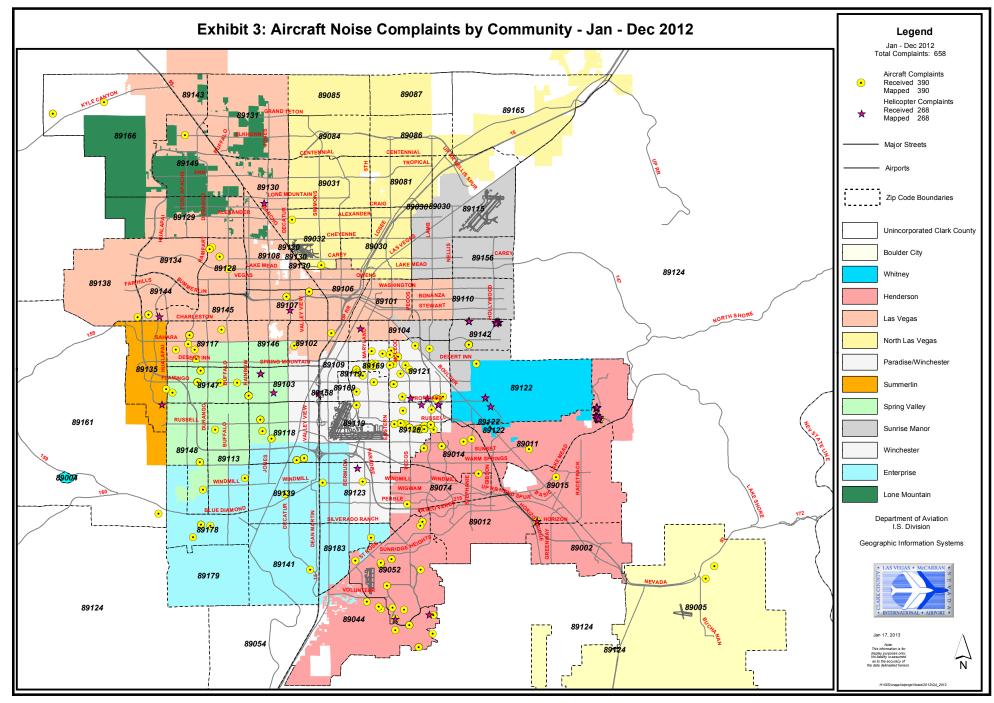
December 2012 Noise Complaint Report



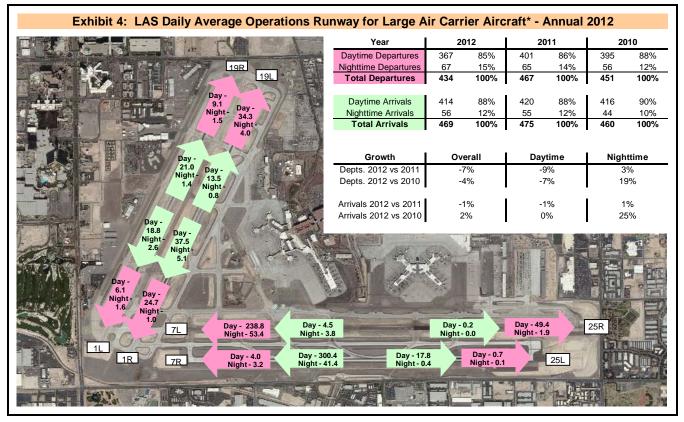
* See map on reverse side for community boundaries and location of known noise complaints.

	1			1											
Operation	No. of Calls in	Percent of	No. of Calls in	No. of Calls in				Coll	s by Ope	ration					
Operation	2012	Overall Total	2011	2010	0 25	5 50	75				175	200	225	250	27
LAS 01R/L Arrivals	1	0.2%	8	5	-		ł	1		1					
LAS 07R/L Arrivals				1	1										
LAS 19R/L Arrivals	7	1.1%	3	1		79 calls fro	om one ho	ousehold							
LAS 25R/L Arrivals	8		4	3											
LAS 01R/L Departures	150	22.8%	250	246						i .					
LAS 07R/L Departures	75	11.4%	9	61					1						
LAS 19R/L Departures	14		100	59		1									
LAS 25R/L Departures	93	14.1%	69	180				-							
LAS Run-ups	3	0.5%		7	~ 		1	-							
LAS GA			1												
LAS Other															
LAS Total	351	53.3%	444	563	-										
VGT 07 Arrivals															
VGT 07 Annuals VGT 12R/L Arrivals															
VGT 25 Arrivals										1					
VGT 20 Anivais															
VGT 07 Departures					-										
VGT 07 Departures															
VGT 25 Departures															
VGT 30R/L Departures															
VGT Run-ups					-										
VGT GA	8	1.2%	10	10											
VGT Other	0	1.270	10	10											
VGT Total	8	1.2%	10	10	-										
HND 17R/L Arrivals															
HND 35R/L Arrivals															
HND 17R/L Departures															
HND 35R/L Departures					-										
HND Run-ups HND GA	21	4 70/	20	21											
HND GA HND Other	31	4.7%	28	21		170 call	s from on	e househol	d						
HND Other HND Total	31	4.7%	28	21	-				-						
	31	4.170	20	21											
Helicopters**	268	40.7%	75	57											
Overall Total	658	100%	557	651											

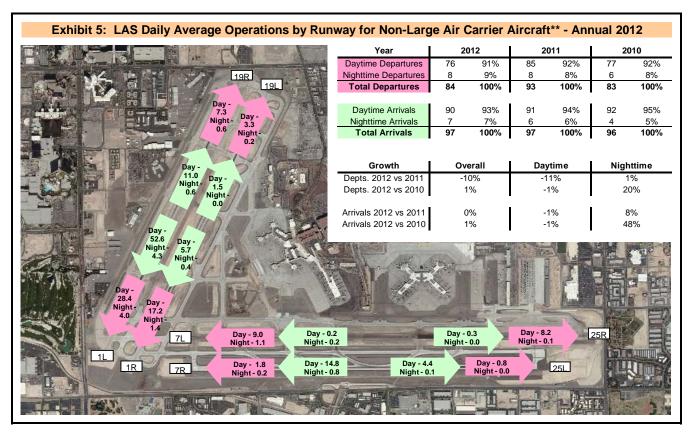
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2012 Noise Complaint Report



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** Aircraft types: All aircraft with a maximum gross take of weight less than 75,000 pounds, excluding helicopters.

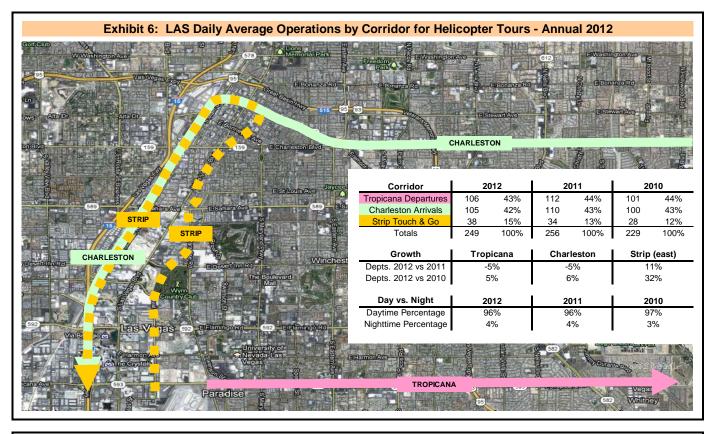
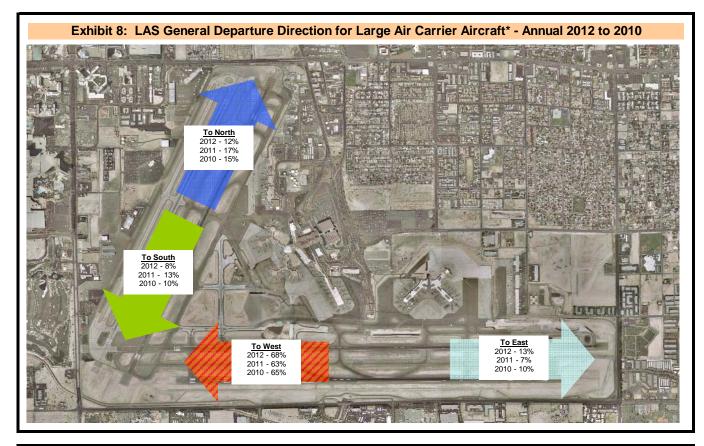
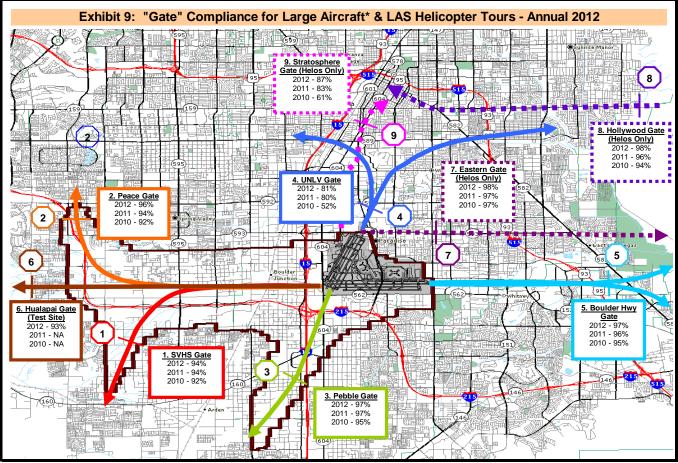


		Exhibit	7: LAS A	ircraft Ar	ival	Flee	t Mi	x* - /	Annı	ial 2	012							
Operation	Daily Average in 2012	Percent of Overall Total	Daily Average in 2011	Daily Average in 2010	0	25	50	75	100	Fleet	Mix 150	175	200	225	250	275	300	325
A300s, A310s	0.93	0.1%	0.64	0.93												ł	1	
A330s, A340s	2.94	0.4%	2.88	1.21	- i												1	
B747s	2.28	0.3%	1.84	1.16	ī												1	
B767s	3.84	0.5%	3.56	5.28	1												1	
B777s	0.23	0.0%	0.51	1.12	Ī												1	
DC10, L1011, MD11	1.13	0.2%	1.01	0.90	1												1	
Misc. (B707s, DC8s, etc.)	0.00	0.0%	0.00	0.00	1												1	
Heavy Jets (>300,000 lbs.)		1.6%	10.44	10.60													1	
	1		1													1	1	
A318s, A319s	38.10	5.4%	35.91	26.18		_ <u>!</u>										1	1	
A320s, A321s	49.39	7.0%	50.86	49.67			-										1	
B717s	0.00	0.0%	0.00	0.00			-										1	
B727s	0.04	0.0%	0.07	0.08													1	
B737-100s, -200s	0.02	0.0%	0.05	0.10													1	
B737-300s to -900s	288.88	40.8%	291.32	278.10		i	i	i	i	i	i	i	i	i	i	<u> </u>	1	
B757s	28.60	4.0%	32.76	41.45		<u> </u>	1	i	i	i							1	
BAC 111s, E170s, E190s	1.54	0.2%	1.02	1.13													1	
CRJ7s, CRJ9s	13.18	1.9%	14.92	18.05		1											1	
MD80s	36.41	5.1%	34.49	30.54													1	
MD90s	1.68	0.2%	2.27	0.71	1												1	
Misc. (Bae 146s, DC9s)	0.08	0.0%	0.08	0.05	ſ												1	
Large Jets (>75,000 lbs.)	457.93	64.6%	463.73	446.07														
Medium Jets (>41,000	8.12	1.1%	7.32	5.88														
Small Jets (<41,000 lbs.)	55.43	7.8%	55.24	50.44														
Military Jets	0.36	0.1%	0.59	0.56														
Non-Jets & Unknowns	33.00	4.7%	34.41	40.80		-												
Helicopter Tours	142.70	20.1%	143.90	128.00														
Overall Total*	709	100%	716	682														

* Overall Total: Note that operation type and runway use counts are estimated by ITT Exelis AirScene.com Noise and Monitoring Operations

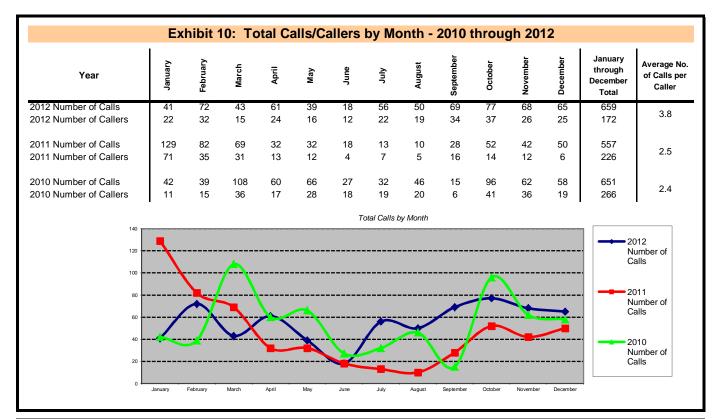
(NOMS) system based on radar data. Due to limitations of radar data, information for aircraft weighing less than 75,000 lbs. is inexact.



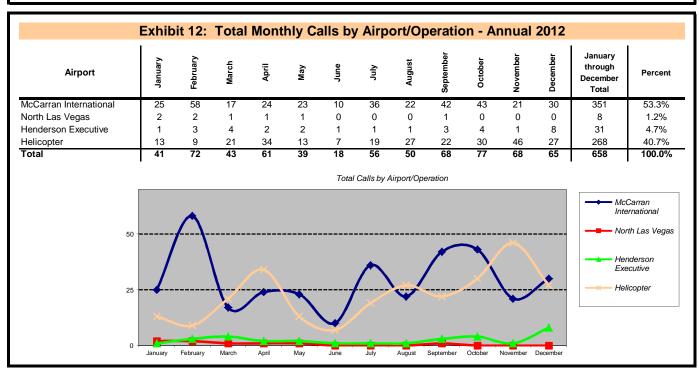


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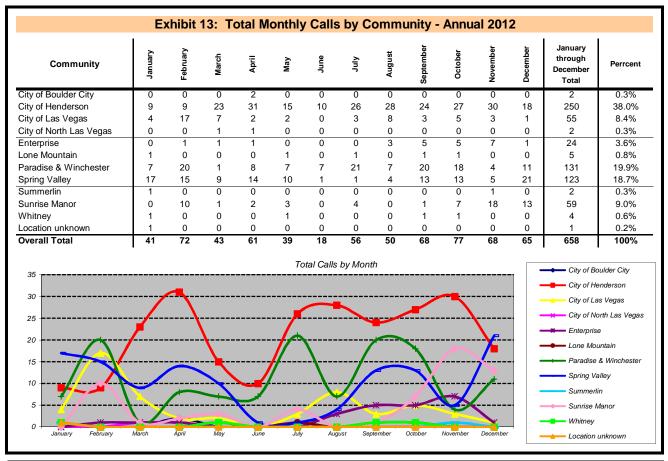
Annual 2012 Noise Complaint Report



	Ext	nibit 1	1: To	tal Mo	onthly	Calls	by Ti	me of	Day -	Annu	ual 20 [°]	12		
Time Complaint Received	January	February	March	April	May	June	VInL	August	September	October	November	December	January through December Total	Percent
Day Hours (7:00 a.m. to 9:59 p.m.)	39	58	40	55	32	16	49	43	62	66	62	58	580	88.0%
Night Hours (10:00 p.m. to 6:59 a.m.)	2	14	3	6	7	2	7	7	7	11	6	7	79	12.0%
Total	41	72	43	61	39	18	56	50	69	77	68	65	659	100.0%



Annual 2012 Noise Complaint Report



MIA Operations	January	February	March	April	May	June	VINL	August	September	October	November	December	January through December Total	Perrcent
AS 01R/L Arrivals	0	0	0	0	0	0	1	0	0	0	0	0	1	0.3%
AS 07R/L Arrivals	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
AS 19R/L Arrivals	0	1	0	0	0	0	2	1	0	1	2	0	7	2.0%
AS 25R/L Arrivals	0	0	0	2	0	2	0	0	0	1	2	1	8	2.3%
AS 01R/L Departures	22	22	7	15	16	1	6	3	8	26	2	22	150	42.7%
AS 07R/L Departures	0	16	0	0	3	4	24	5	19	1	2	1	75	21.4%
AS 19R/L Departures	0	1	1	0	0	0	0	1	3	2	6	0	14	4.0%
AS 25R/L Departures	3	18	9	7	4	0	3	12	12	12	7	6	93	26.5%
AS Run-ups	0	0	0	0	0	3	0	0	0	0	0	0	3	0.9%
AS GA	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
AS Canyon	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
AS Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
AS Total	25	58	17	24	23	10	36	22	42	43	21	30	351	100.0%
30		~	~		Tc	otal Calls	by Mont		Á		/	<	LAS 07/ LAS 19/ LAS 25/ LAS 25/ LAS 01/ LAS 07/	R/L Arrivals R/L Arrivals R/L Arrivals R/L Arrivals R/L Departure R/L Departure R/L Departure
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