



SAN DIEGO
INTERNATIONAL AIRPORT

LET'S **GO.**

Airport Noise Advisory Committee

December 19, 2018

Agenda

1. Welcome and Introductions
2. Presentation Items
 - a. Quieter Home Program Update
 - b. Missed Approach Statistics
 - c. Early Turn & Other Flight Ops Statistics
 - d. Curfew Violation Review Panel Statistics
 - e. Fly Quiet Program Update
 - f. Noise Complaint Statistics
 - g. Update on ANAC Recommendations
 - h. Part 150 TAC Update
3. Public Comment
4. Action Items
 - a. Approval of Minutes from October 17, 2018.

Next Meeting: February 20, 2019

1. Adjourn



Quieter Home Program Update

IN THE LAST TWO MONTHS:

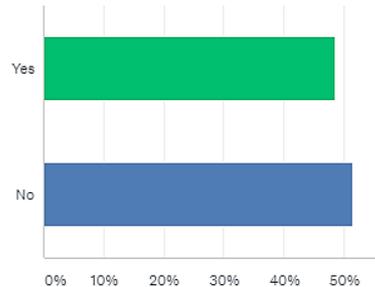
- Spent \$2.7 Million
- Working with over 600 homeowners



WHAT'S COMING UP

- 8 new construction projects start by Summer 2019 (460 units)
- Create a new project group every other month

Could the Program Improve?



PROGRAM STATISTICS

Applicants / Homes on the Wait List	525/1,045
Homes Completed in October & November	24
Estimated Homes to Complete in CY 2018	270
Total Homes Completed (through November 30, 2018)	3,705

QHP Questions ?



Missed Approach Statistics

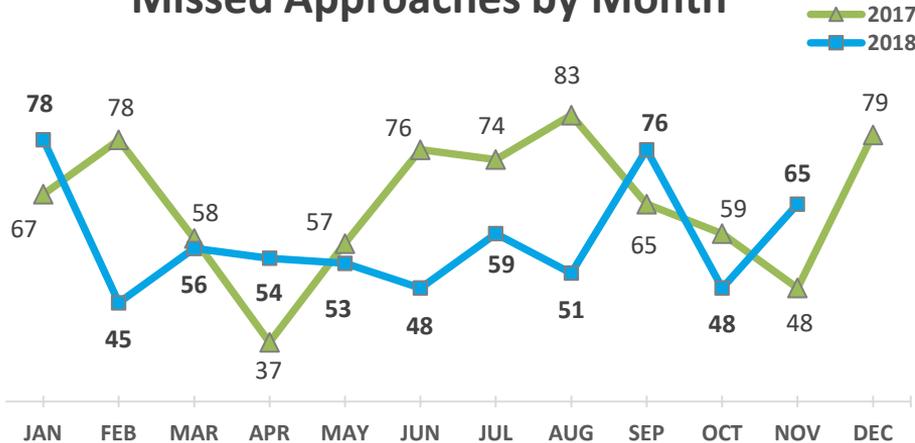
IN THE LAST TWO MONTHS:

- 113 missed approaches
- 6% higher than last year
- Operations are up 8% (Year-to-Date)

MISSED APPROACHES ARE CAUSED BY

- Unstable arrivals (too high to land)
- Traffic separation
- Poor visibility (Weather)
- Other safety concerns

Missed Approaches by Month



Year	Total Missed Approaches	% Change	Total Arrivals	% Change	% of Total Arrivals that are Missed Approaches
2013	659	--	93,985	--	0.7
2014	637	(3.3%)	95,881	2%	0.7
2015	748	17.4%	96,856	1%	0.8
2016	771	3.1%	98,566	1.8%	0.8
2017	781	1.3%	104,725	6.2%	0.7
2018	633*	--	103,052*	--	0.6

*Through November 30, 2018

Missed Approach Statistics

Missed Approaches are safety-related operations and are not subject to FAA Noise Dot agreement

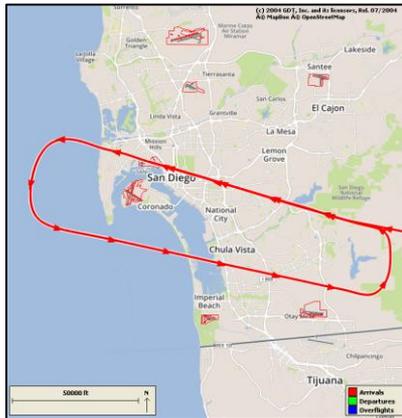
Date	Between 265° - 295° * Headings (Standard)	Left of 265°	Right of 295°	East of Airport	Day	Night
October	30	5	1	12	47	1
November	44	15	3	3	53	12

Missed Approaches relative to the FAA Noise Dots

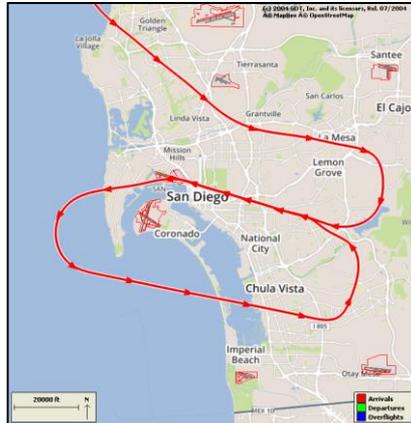
Missed Approaches may fly through more than one location

Date	Between ND #1 - ND #2	Between ND #2 - JETTI	Between JETTI - ND #3	Between ND #3 - ND #4
October	0	21	15	5
November	3	28	14	15

Standard Path



“Early Turn” Path



79%

Of Missed Approaches either follow the standard departure paths or occur east of the Airport

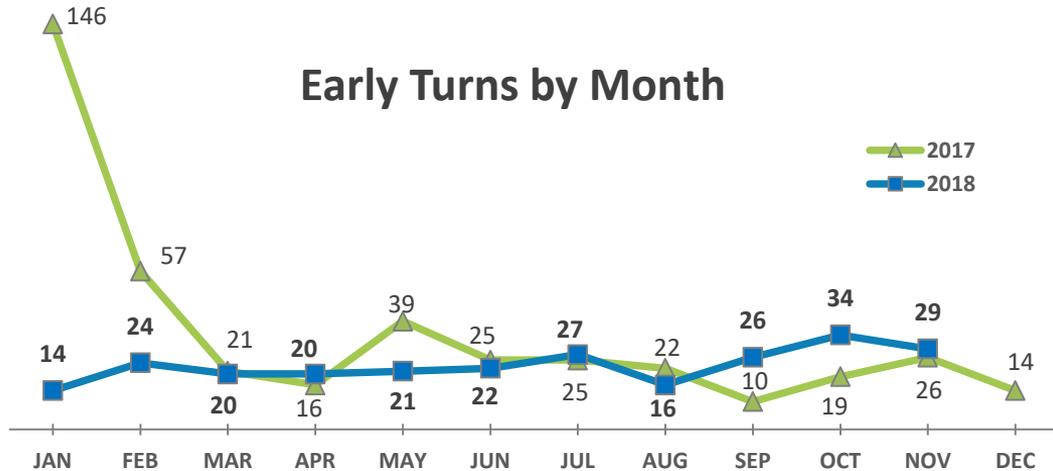
Early Turn Statistics

IN THE LAST TWO MONTHS:

- 63 early turns
- 40% higher than last year
- Operations are up 8% (Year-to-Date)

WHY AN INCREASE?

- Significant weather events
- Traffic Separation
- Several General Aviation Jets



Early Turns by Year

YEAR	Early Turns
2013	829
2014	1,105
2015	1,293
2016	776
2017	420
2018	253*

* Through November 30, 2018

Early Turn Statistics

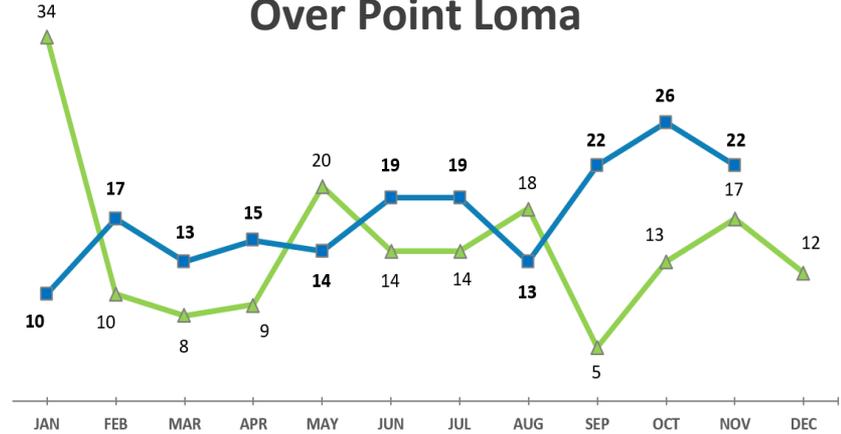
OPERATORS WITH HIGHEST % OF EARLY TURNS

- Edelweiss Air 16.7%
- Lufthansa 2.44%
- Jazz Aviation 1.97%
- Japan Airlines 1.64%

38%

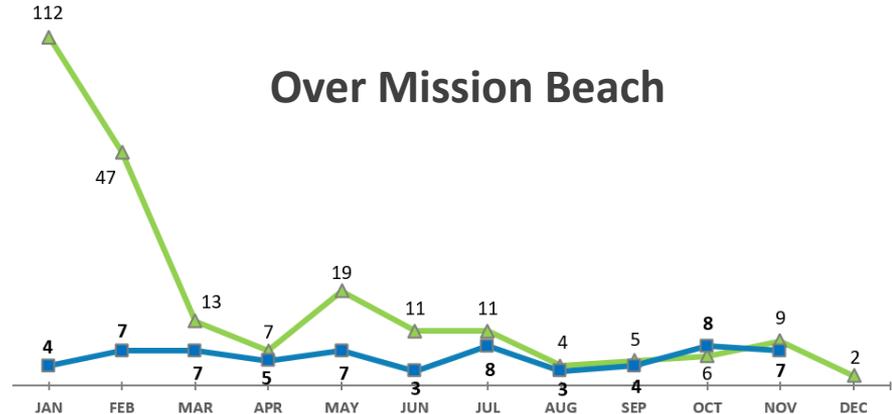
Early turns are over all lower as compared to this time last year

Over Point Loma

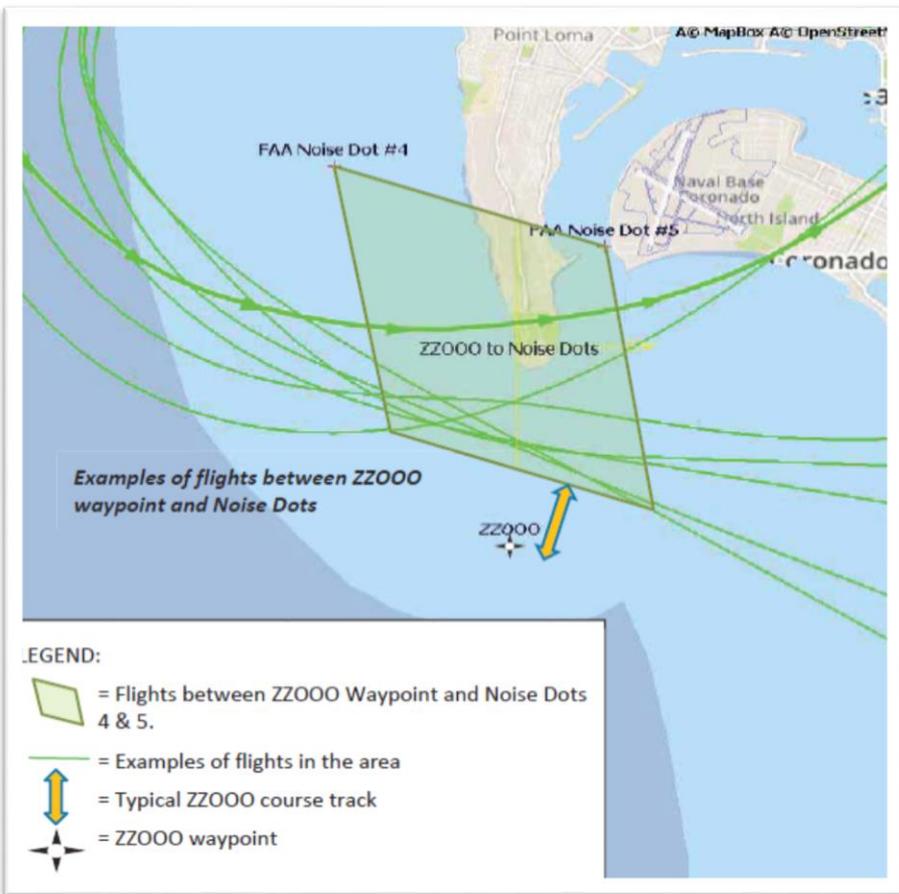


2017
2018

Over Mission Beach



Other Flight Ops Statistics

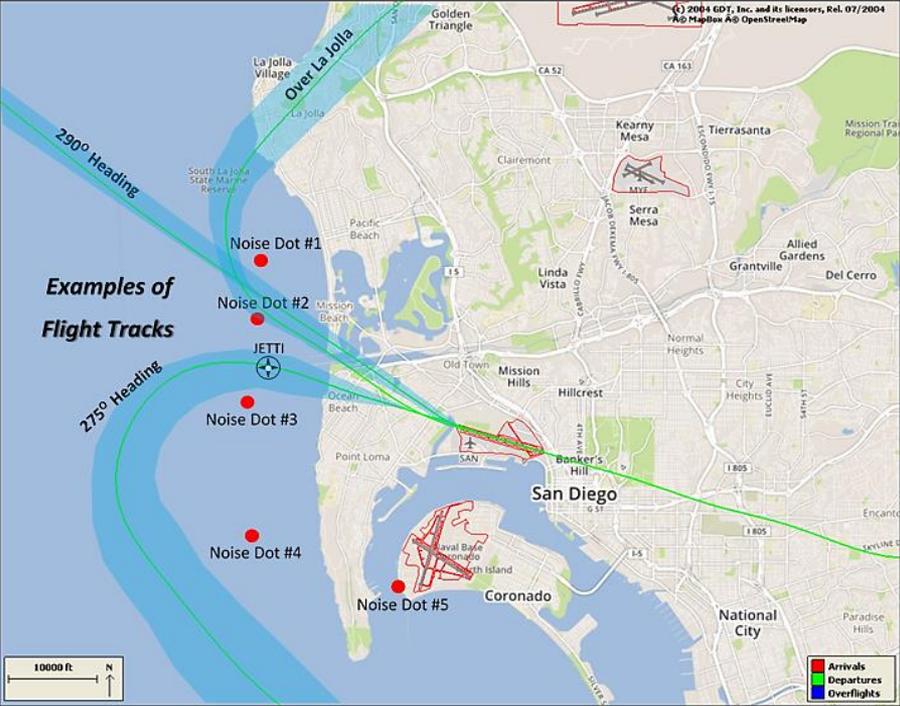


Flights Between ZZ000 Waypoint and Noise Dots

Date	Jets Turning Left	Between ZZ000 & Noise Dots	%
October	4,761	574	12%
November	4,582	748	16%

NOTE: *These flights are On-Course and compliant with FAA Noise Dots*

Other Flight Ops Statistics



Nighttime Departures

Date	Runway Heading (275°)	Early Turns	Adhered to Nighttime Dep. (290°)	Total (Jet)	Over La Jolla (compliant)
October	6	3	276	285	10
November	12	1	349	362	7

Flight Ops Questions ?



Curfew Violation Statistics

IN THE LAST TWO MONTHS:

- 19 Curfew Violations
- Last violation was on November 21
- Violations are down 5% for the year

CONTRIBUTORS TO CURFEW VIOLATIONS

- *Local maintenance issues*
- *Severe thunderstorms - Oct.12*

Of the **56**
VIOLATIONS that
have been reviewed
this year, **32 HAVE**
BEEN PENALIZED.

\$254,000

Collected curfew penalties so far in 2018

Fly Quiet Program Updates

WHAT'S NEW

- Early Turn criteria removed as they are done for safety
- Noise exceedance added to identify loudest 10% of the operations
- Fleet Quality includes specific engines by aircraft for each carrier.

AIRLINE ACTIONS TO IMPROVE IMPACTS 2018

- Reduction of scheduled MD-80's into SAN (Eliminated from scheduled service in Dec 2018).
- Increased utilization of 737MAX and A320neo aircraft replacing older noisier aircraft.
- Fewer curfew violations by carriers that scored low in 2017.
- Refinement of Fleet Quality data.

	1 st Qtr.	2 nd Qtr.	3 rd Qtr.
Best Overall	Spirit	Spirit	United
Most Improved	Southwest	SkyWest	United
Quietest Fleet	Japan	Japan	Japan

Curfew and Fly Quiet Questions ?



Noise Complaint Statistics

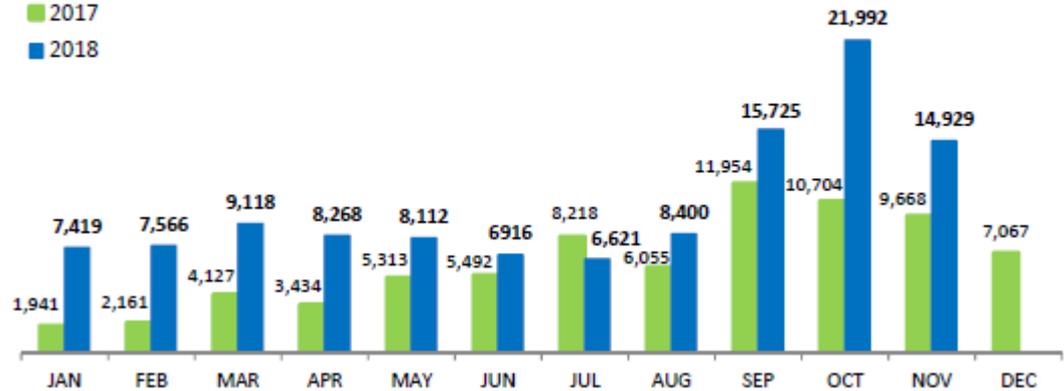
Disturbance Type

October & November 2018

Reason	Number of Complaints	%
Too Loud	36,477	98.7%
Too Low	245	0.7%
Suspected Off-Course	123	0.34%
Curfew Violation	50	0.14%
Overflight	17	0.047%
Other	6	0.02%
Pollution	3	0.01%

Total Complaints

Through November 30, 2018



93% vs. 7%

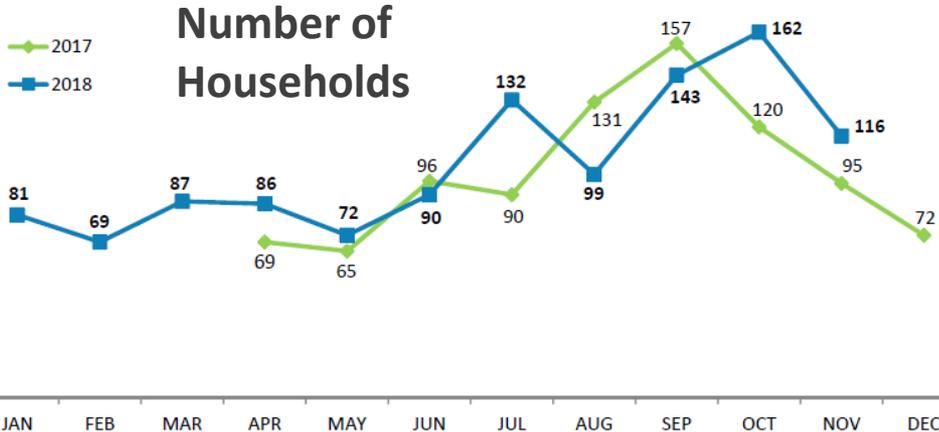
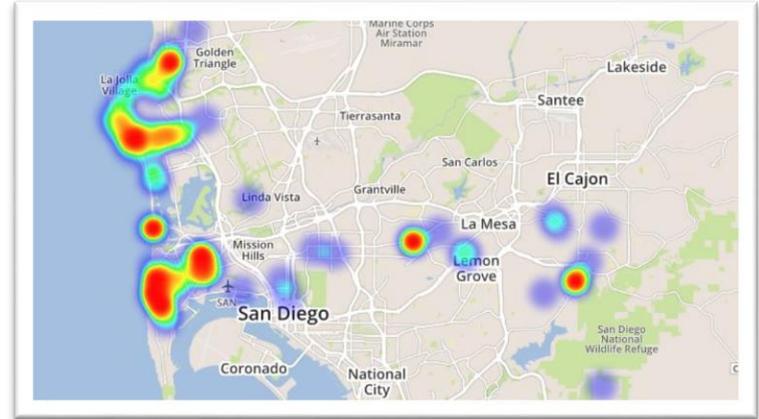
3rd Party vs. Authority Tools

Noise Complaint Statistics

IN THE LAST TWO MONTHS:

- 91% of Complaints from La Jolla, Mission Beach, Ocean Beach, and Point Loma
- 73% of complaints from 19 Households
- 9 Households with over 1,000 complaints

LOCATIONS OF COMPLAINTS



Neighborhood by Zip Code	Number of Households*
La Jolla – 92037	49
OB/Sunset Cliffs – 92107	46
Pt. Loma – 92106	46
Mission Beach/PB 92109	21
La Mesa/Mt. Helix - 91941	10
Rolando - 92115	3
Golden Hill - 92102	3
Other (less than 2 Households)	15
Total	193

*Combined total for October & November

Noise Complaint Questions ?



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