

Airport Noise Advisory Committee

February 20, 2019

<u>Agenda</u>

- 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. Airport Statistics
 - g. Noise Complaint Statistics
 - h. Update on ANAC Recommendations
 - i. Part 150 TAC Update
- 3. Public Comment
- 4. Action Items
 - a. Approval of December 19, 2018 Meeting Summary
- 5. Next Meeting: April 17, 2019
- 6. Adjourn



Quieter Home Program Update

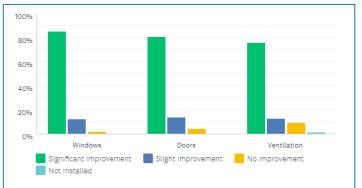


IN THE LAST TWO MONTHS:

- Potentially-eligible 548-unit apartment complex has applied
- Began Phase 10 planning activities



How would you rate the EFFECTIVENESS of the changes made to your home?



PROGRAM STATISTICS	
Applicants / Homes on the Wait List	528/1,605
Homes Completed in December & January	34
Estimated Homes to Complete in CY 2019	300
Total Homes Completed (through January 31, 2019)	3,739

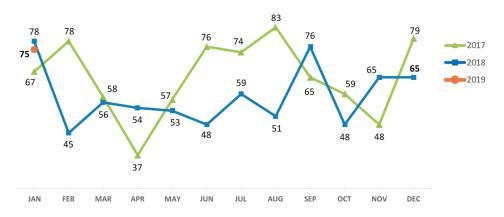


Missed Approach Statistics

IN THE LAST TWO MONTHS:

- 140 missed approaches
- 10% lower than last year (and CY17)
- Operations are up 7.4% (Year-to-Date)

Missed Approaches by Month



MISSED APPROACHES ARE CAUSED BY

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

Missed Approaches by Year

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	698	(10.6%)	112,529	7.5%	0.6
2019	75*		9,120		0.7
			Source: FAA Data		

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Missed Approach Statistics

Missed Approaches by Location

All Missed Approaches are Safety-Related Operations

Date	Between 265 °- 295 ° Headings (Standard)	Left of 265°	Right of 295°	East of Airport	Day	Night
December 201	8 57	8	0	8	40	25
January 2019	59	15	1	7	72	3

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	Between ND #4 - ND #5
December 2018	1	29	27	8	0
January 2019	4	34	22	14	1

Standard Path



" Early Turn" Path



94%

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

Early Turn Statistics

IN THE LAST TWO MONTHS:

- 53 early turns
- 89% higher than last year
- Operations are up 7.4 % (Year-to-Date)

THE REAL PRINTS BY MONTH FEB. MAR. APR. MAY. JUN. JUL. AUG. SEP. OCT. NOV. DEC.

WHY AN INCREASE?

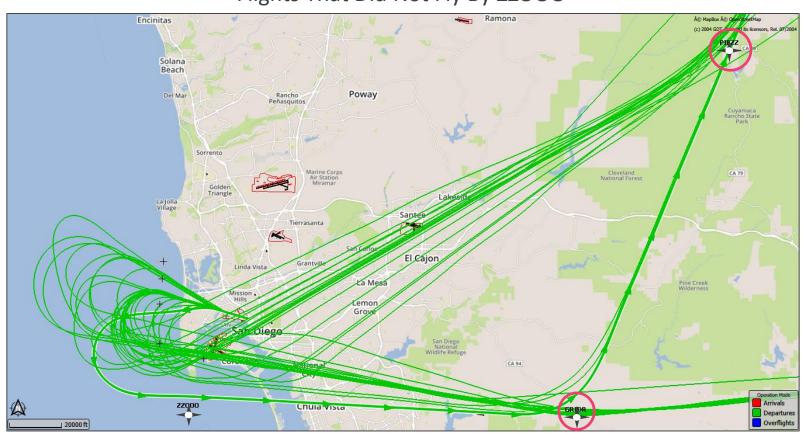
- Significant Weather Events
- Traffic Separation
- 35 Flights that did not fly by ZZOOO

Early Turns by Year

YEAR	Early	%
TEAN	Turns	Change
2013	829	
2014	1,105	33
2015	1,293	17
2016	776	(40)
2017	420	(46)
2018	269	(36)
2019	37*	

Early Turn Statistics

Flights That Did Not Fly By ZZOOO



Early Turn Statistics

OPERATORS WITH HIGHEST % OF EARLY TURNS

Air Canada 1.82%

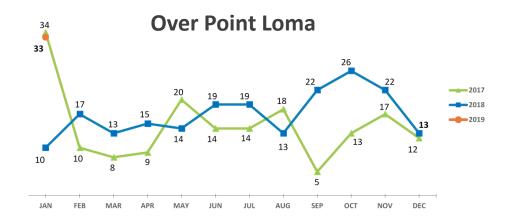
• Frontier 0.73%

■ G/A 0.69%

Delta Air Lines 0.57%

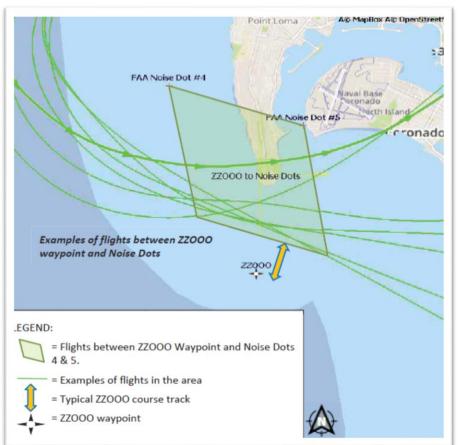
36%

Overall annual decrease as compared to 2017





Waypoint ZZOOO Departures



Flights Between ZZOOO Waypoint and Noise Dots

Date	Jets Turning Left	Between ZZOOO & Noise Dots	%
December 2018	4,506	1,110	24%
January 2019	4,129	811	20%

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

Nighttime Departures



Date	Runway Heading (275°)	Runway 09	Early Turns	Adhered to Nighttime Dep. (290°)	Total (Jet)	Over La Jolla
December 2018	7	38	2	328	375	23
January 2019	9	26	0	221	256	9



Curfew Violation Statistics

IN THE LAST TWO MONTHS:

- 5 Curfew Violations (DEC-JAN)
- January 6 CVRP Meeting
 - ✓ 4 Reviewed (1 November, 3 December)
 - ✓ None were penalized due to weather and maintenance
- 2 Violations will be reviewed in April

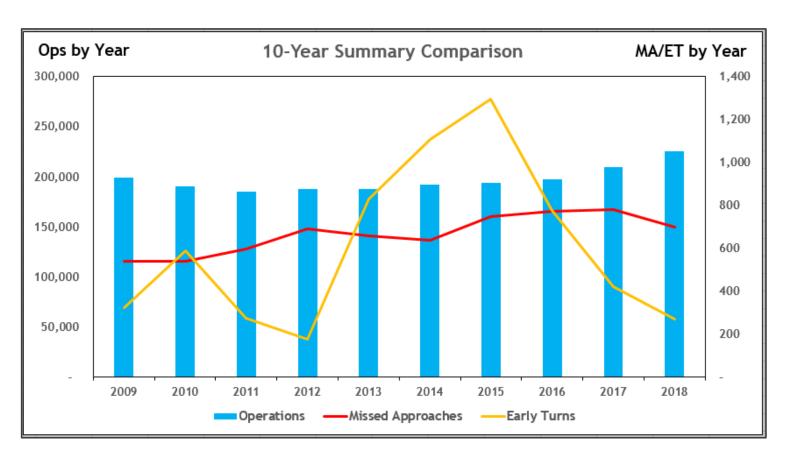
2018 - 59 VIOLATIONS/31 PENALIZED VS
2017 - 72 VIOLATIONS/59 PENALIZED

CONTRIBUTORS TO CURFEW VIOLATIONS

- Local maintenance issues
- Local weather
- Decline in arbitrary departures

Penalties \$254,000 (2018) VS \$376,000 (2017)

Summary Statistics



Fly Quiet Program Updates

IN THE LAST TWO MONTHS:

- BA 777 returns March 31
 - √ 747 likely continued use in off season
 - √ 744 fleet retirement in 2024
- Some softening in scheduled operations for Q1 2018 (5.2% vs. 11.4% in 2017)

New Boeing 200-240 seat aircraft??? Late 2019/Early 2020 launch Medium Range (5,000 miles)

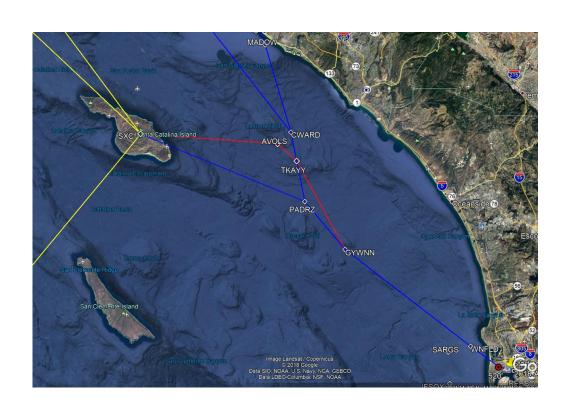


AIRLINE ACTIONS TO IMPROVE IMPACTS IN 2018

- MD-80 removed from SAN schedules
- Continued increases in the utilization of 737MAX and A320neo
 - ✓ Frontier leads with 23% conversion rate, but score impacted by high use of A321
- 22% reduction in Curfew Violations

FlyQuiet	4 th Quarter
Best Overall	Spirit Airlines
Most Improved	Spirit Airlines
Quietest Fleet	Japan Airlines

New Departure Procedure - TKAYY



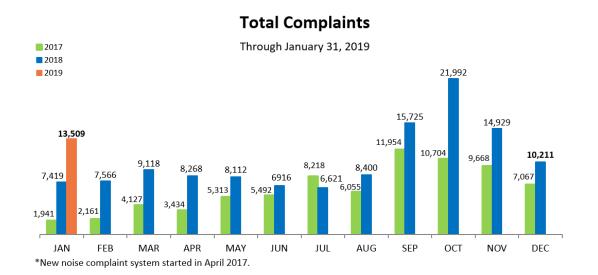
FOLLOWS EXISTING
RNAV SIDS TO GWYNN
WAYPOINT

CHANGE IS 22-MILES DUE WEST OF CARLSBAD

Curfew and Fly Quiet Questions?



Noise Complaint Statistics



Disturbance Type

December 2018 & January 2019

	,	
Reason	Number of Complaints	%
Too Loud	23,437	98.8%
Too Low	144	0.6%
Overflight	69	0.3%
Suspected Off-Course	49	0.2%
Curfew Violation	14	0.05%
Other	5	0.02%
Pollution	1	0.004%
Increased Flight Volume	1	0.004%

95% VS. 5% 3rd Party vs. Authority Tools

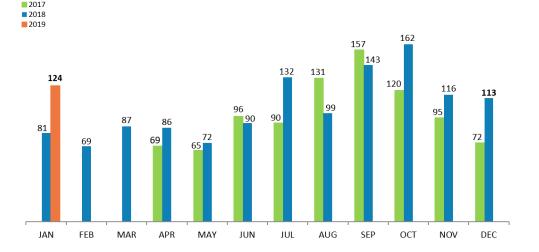
Noise Complaint Statistics

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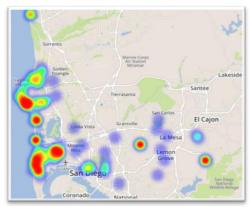
- 27 new households
- 44 less households than October & November
- New zip code, Poway 92064

Number of Households

Through January 31, 2019



DENSITY & LOCATION OF COMPLAINTS



Neighborhood by Zip Code	Number of Households*
La Jolla – 92037	48
OB/Sunset Cliffs – 92107	29
Mission Beach/PB – 92109	20
Pt. Loma 92106	18
La Mesa/Mt. Helix - 91941	4
Del Mar - 92014	3
Bankers Hill - 92101	3
Other (less than 2 Households)	24
Total	149

Noise Complaint Questions?



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