



SAN DIEGO
INTERNATIONAL AIRPORT

LET'S **GO.**

Airport Noise Advisory Committee

June 21, 2017

Agenda

1. Welcome and Introductions
2. Presentation Items
 - a. Quieter Home Program Update
 - b. Curfew Violation Review Panel Statistics
 - c. Missed Approach Statistics
 - d. Early Turn Statistics
 - e. Metroplex Update
 - f. Noise Complaint Statistics
 - g. Fly Quiet Report - 1st Quarter 2017
3. Public Comment
4. Approval of April 26, 2017 Minutes
5. Information Items
 - Subcommittee Update
 - Airport Authority Update
6. New Business
7. Next Meeting: August 16, 2017
8. Adjourn



Quieter Home Program Update

PROGRAM STATISTICS	
Applicants / Homes on the Wait List	666/1,411
Homes Completed in April & May 2017	0
Estimated Homes to Complete in CY 2017	20
Total Homes Completed (through May 31, 2017)	3,453

Updates

- Approvals! – Contract Template and 8.12
- Projects submitted for FAA review:
 - **8.10** – Historic, single-family (SF), ventilation and air conditioning designs. Originally submitted on February 22, 2017; revised and resubmitted on May 25, 2017.
 - **9.1** – Historic, multi-family (MF), ventilation on May 11, 2017.
- Pending Projects:
 - **8.11** – Non-Historic, SF and MF, 50 units.
 - **9.2** – Non-Historic, SF and MF, 40 units.
 - **9.3** – Non-Historic, SF and MF, 35 units.
 - **9.4** – Non-Historic, SF and MF, 25 units.

Questions ?



Curfew Violation Review Panel Stats

Year	Total Curfew Violations	Fines Assessed
2013	60	\$ 166,000
2014	47	\$ 178,000
2015	55	\$ 152,165
2016	84	\$ 564,000
2017	18*	\$ 130,000*

*Through May 31, 2017

Curfew Violation Review

Curfew Violations in April-May 2017

Date	Time	Flight ID	Aircraft Type	Penalty Status
4/12/2017	05:51	Liberty Mutual Insurance, N175BL	G I-V	Penalty, \$2,000
4/24/2017	00:21	jetBlue 530	A320	No Penalty, mechanical issue- engine cowling
5/17/2017	23:33	Frontier 1746	A320	CVRP 08/02/2017
5/17/2017	23:41	jetBlue 530	A320	No Penalty, mechanical issue flight management system
5/25/2017	00:12	jetBlue 530	A320	CVRP 08/02/2017
5/26/2017	00:04	Spirit 189	A319	CVRP 08/02/2017
5/30/2017	23:40	Spirit 189	A319	CVRP 08/02/2017

Questions ?



Definition: Missed Approaches



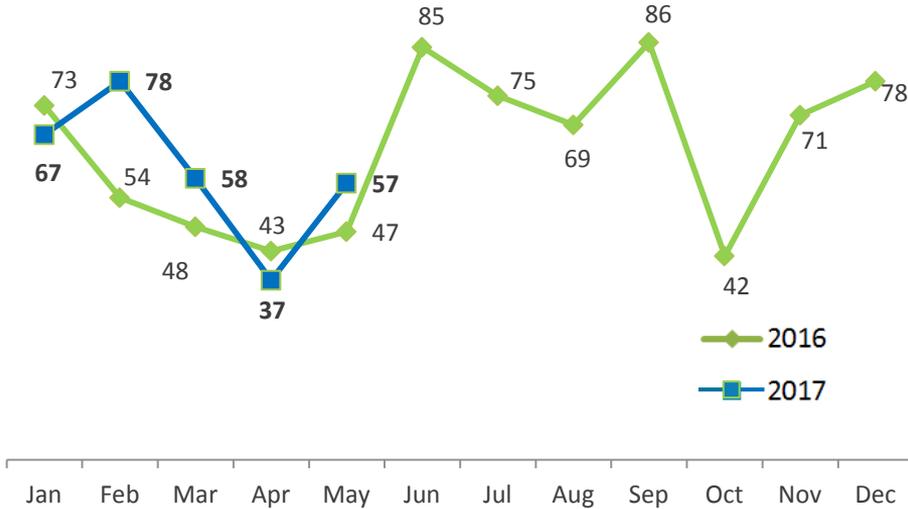
Commonly referred to as a “Go-Around,” a missed approach occurs when an aircraft cannot complete its landing and is required to make another attempt. It can be caused by:

- Inclement weather conditions
- Debris on the runway
- ATC separation of aircraft, slower aircraft unable to exit airspace or runway, forcing larger aircraft to go around

Missed approaches are safety operations that the Authority cannot influence.

Missed Approach Statistics

Missed Approaches by Month



YEAR	Total Missed Approaches	Total Arrivals	% of Total Arrivals that are Missed Approaches
2012	692	93,126	0.7
2013	659	93,985	0.7
2014	637	95,881	0.7
2015	748	96,856	0.8
2016	771	98,566	0.8
2017	297*	40,747**	0.7

* Through May 31, 2017
 ** Estimated Through May 31, 2017

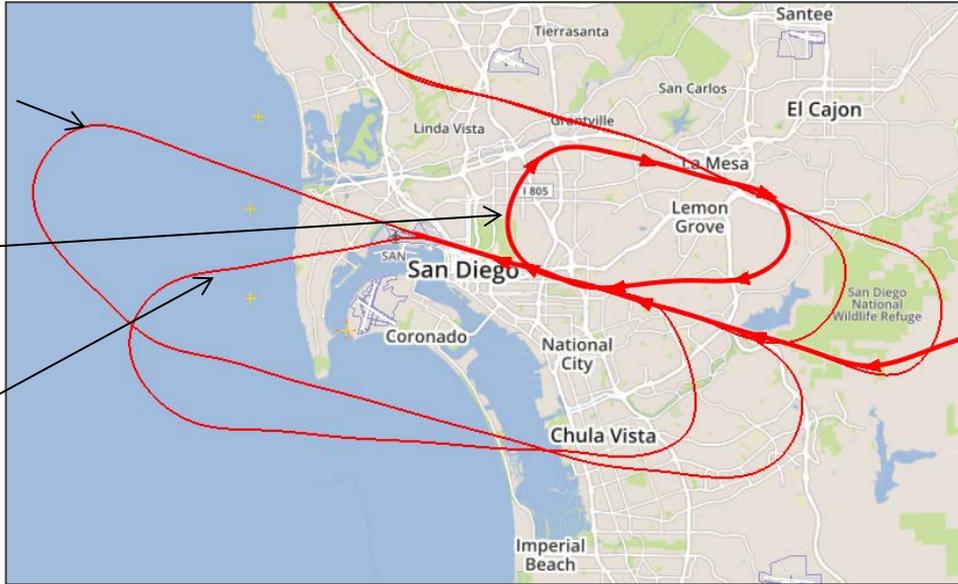
Missed Approach Noise Dot Compliance

Examples

Compliant

Eastern

Non-Compliant



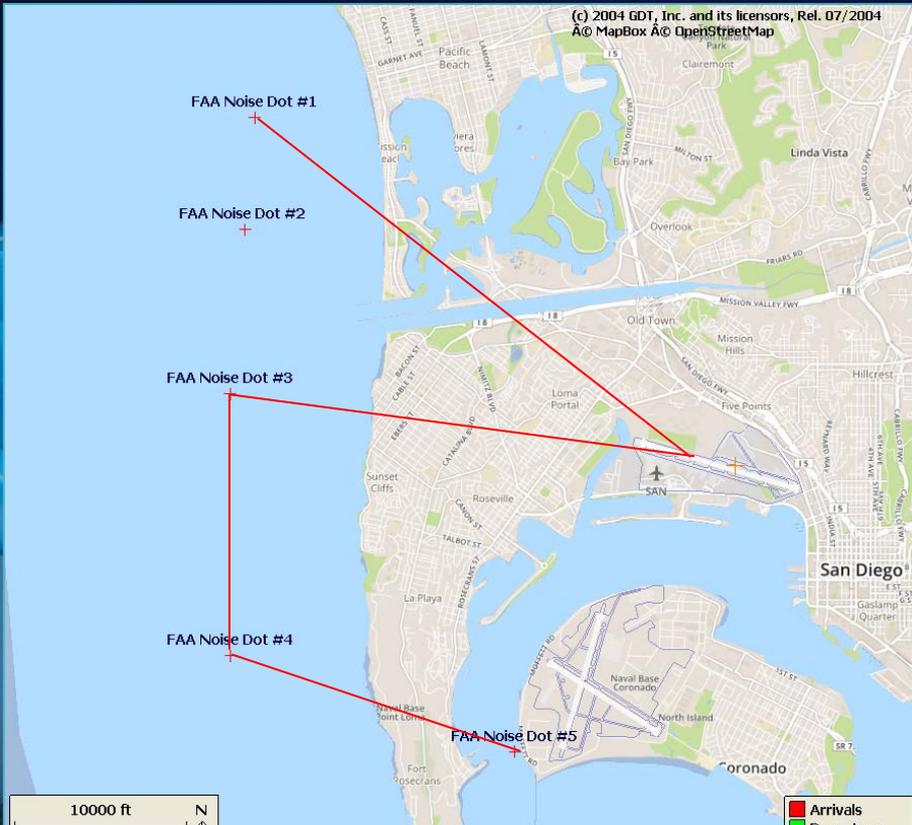
	<u>Compliant</u>	<u>Non-Compliant</u>	<u>East of Airport</u>
April, 2017	32	3	2
May, 2017	31	10	16

Missed Approaches Non-Compliant with FAA Noise Dots

	<u>2016</u>	<u>2017</u>
Jan	18	15
Feb	11	9
Mar	10	5
Apr	11	3
May	12	10
Jun	29	
Jul	25	
Aug	19	
Sep	22	
Oct	11	
Nov	11	
Dec	12	

*Through May 31, 2017

Definition: Early Turns

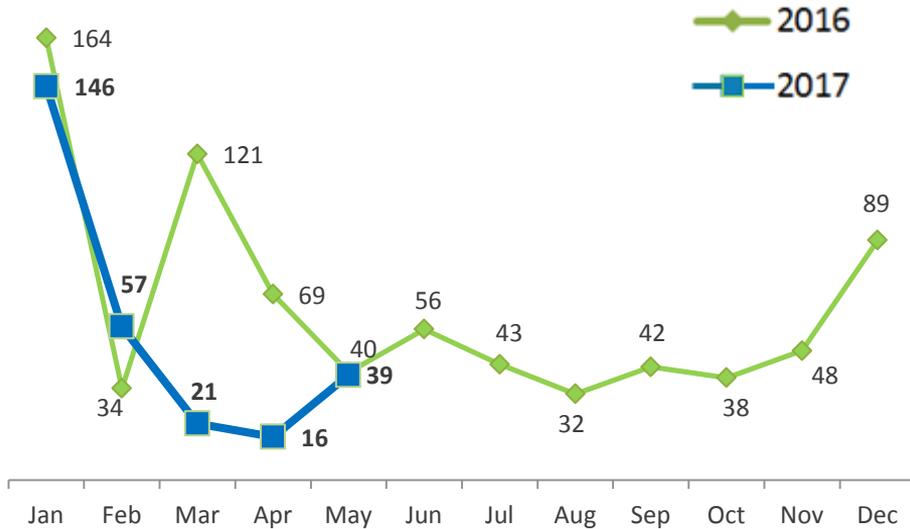


The Authority has defined early turns to the right as those aircraft that turn prior to FAA Noise Dot #1 at the 295-degree heading to the right. Left early turns are defined as those aircraft that turn prior to the 265-degree heading to the left.

Causes for early turns can be similar to missed approaches and are often due to weather or separation.

Early Turn Statistics

Early Turns by Month

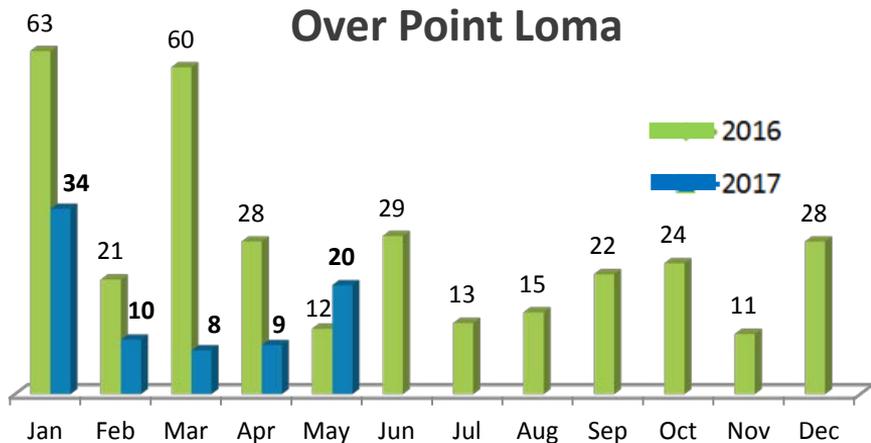


Historical vs. Current Data

YEAR	Below 6,000'	All altitudes
2012	316	538
2013	200	829
2014	338	1,105
2015	467	1,293
2016	559	776
2017	242*	279*

*Through May 31, 2017

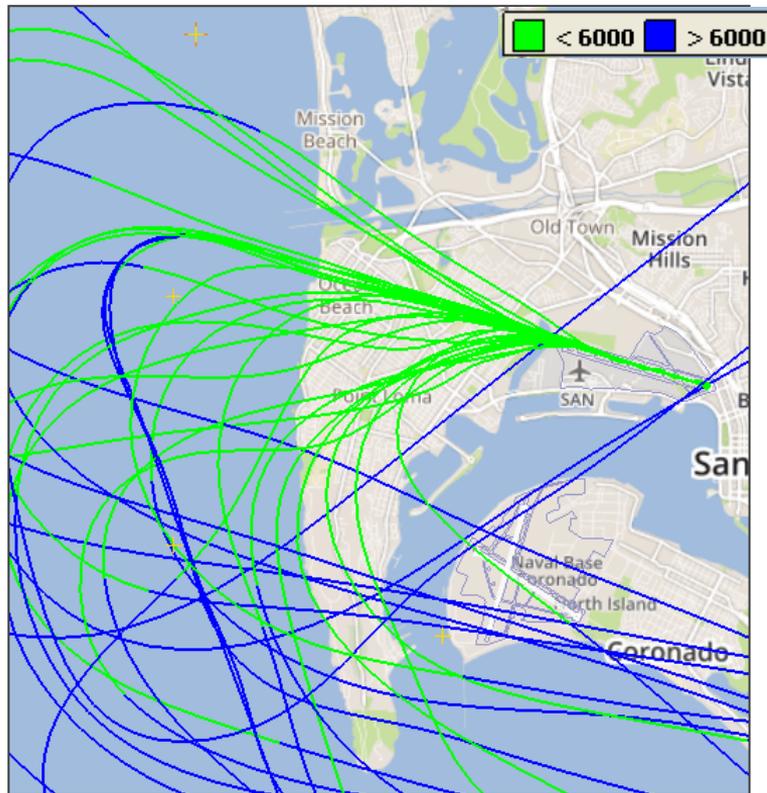
Early Turn Statistics - Left



Early Turns by Operator

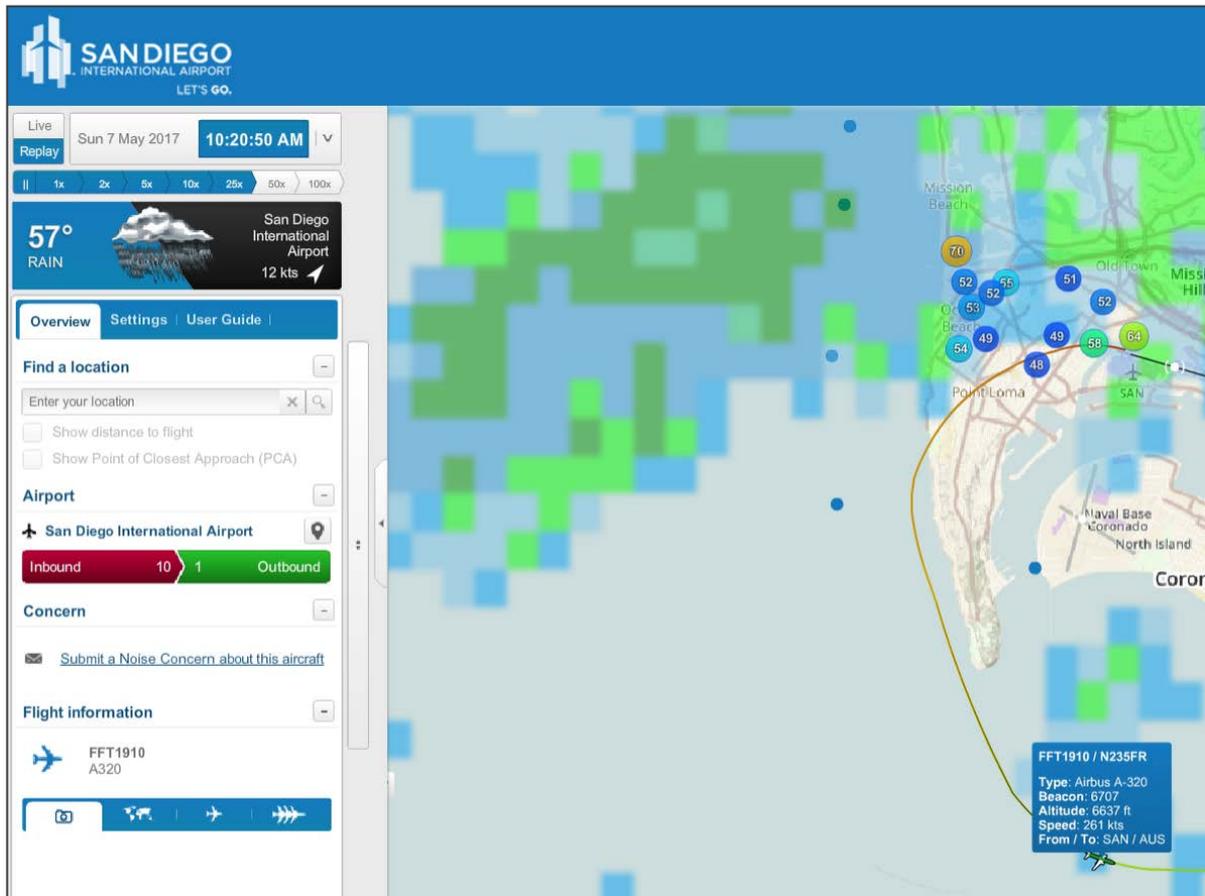
Count	Airline	Aircraft
18	General Aviation	--
3	American Airlines	A321, B738, B752
3	Southwest Airlines	B737
2	Delta Air Lines	A320, B738
1	Alaska Airlines	B737
1	Frontier Airlines	A320, B738
1	United Airlines	B737

April & May 2017

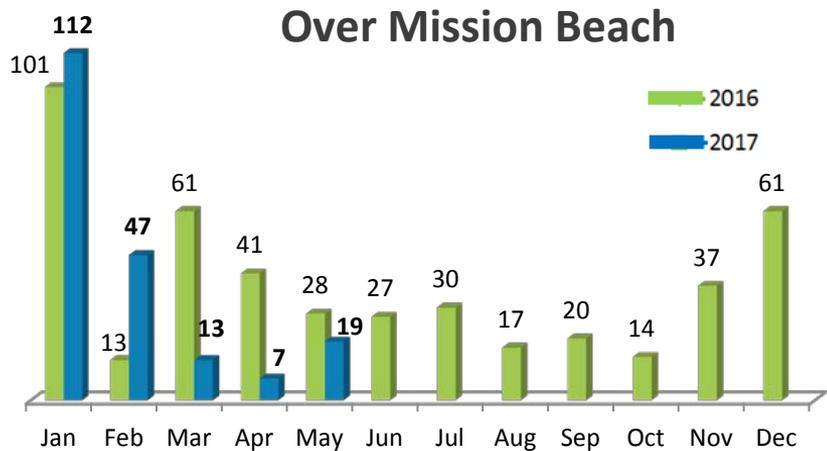


Early Turn Statistics - Left

Rain and thunder storm cells on May 7, 2017 caused seven (7) early turns to the left between 10:04 a.m. to 10:40 a.m.



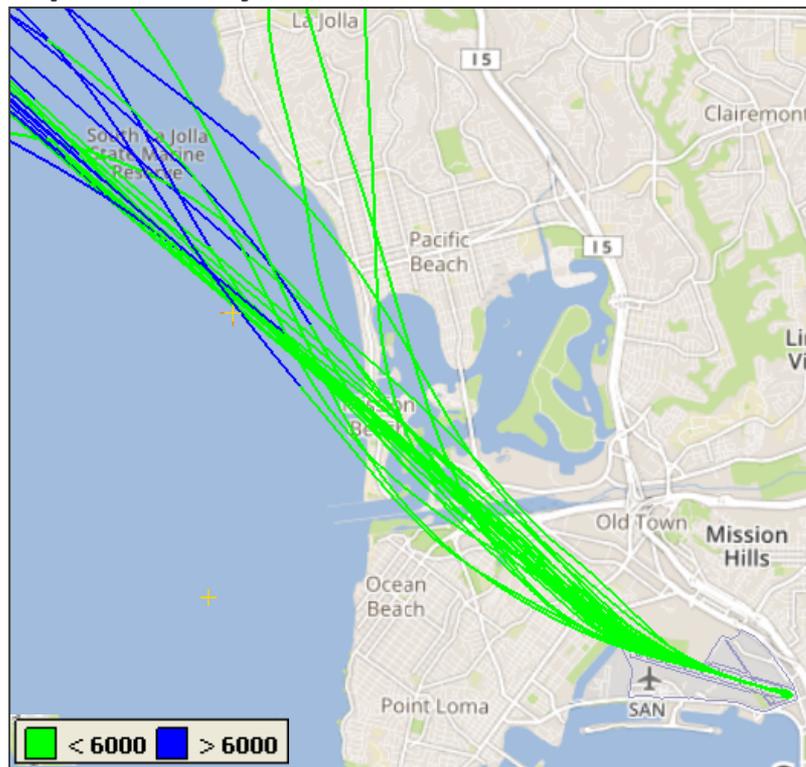
Early Turn Statistics - Right



Early Turns by Operator

Count	Airline	Aircraft
11	General Aviation	--
6	SkyWest Airlines	CRJ7, E75L
5	Compass Airlines	E75L, E75S
2	United Airlines	A320, B738
1	Jazz Aviation	CRJ9
1	Southwest Airlines	B737

April & May 2017



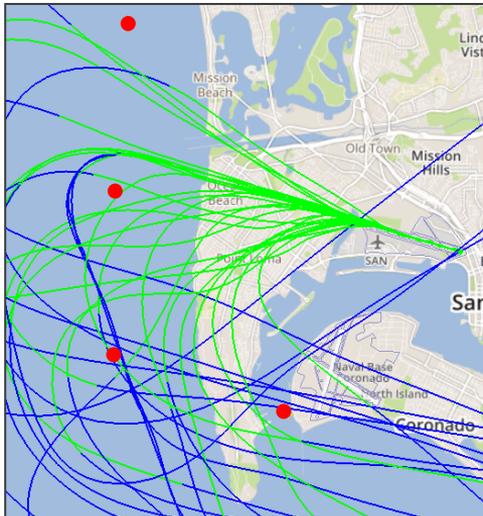
Breakdown of Early Turns

Over Point Loma

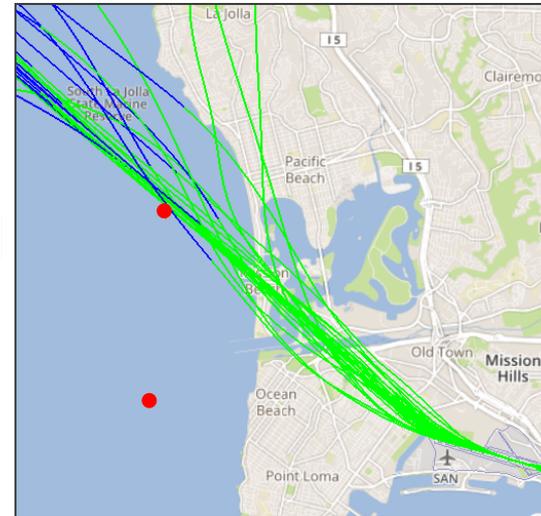
Reason	Count	%
Weather / Contra-Flow	9	31%
Within 1,500 ft. from Noise Dot	8	28%
Pilot Deviation/Equipment Error	8	28%
Pending Investigation	3	10%
FAA Air Traffic Control	1	3%
TOTAL	29	100%

Over Mission Beach

Reason	Count	%
Within 1,500 ft. from Noise Dot	16	62%
Pilot Deviation/Equipment Error	5	19%
Pending Investigation	4	15%
FAA Air Traffic Control	1	4%
TOTAL	26	100%



● = FAA Noise Dots



Questions ?



Noise Complaint Process

The goal of modifying the way our office receives complaints was to get more accurate and relevant data that we can use with the stakeholders. It also gives our staff more time to research and investigate concerns.

Observations on complaints during April - May include:



A resident from La Jolla created an app to submit noise complaints with one button.



During the months of April and May, half of the noise complaints came in via the app and the other half via website, email or phone.



The new Flight Tracker was online April 27th. Email submissions were accepted until June 1st.



A large amount of complaints from the app has conflicting information automatically populated.



Many complaints were submitted for aircraft operations at other airports, not San Diego International Airport.

Other Airport Noise Offices

The screenshot shows the City of San Diego website with the 'Airports' section selected. The main content area is titled 'Noise Management' and includes a 'Frequently Asked Questions' section. The questions and answers are as follows:

Who do I contact to complain about airplane noise at Montgomery-Gibbs Executive Airport or Brown Field?
Call the Airport Noise Abatement Officer at (858) 573-1436, email writer@sanidiego.gov, or use our [online reporting form](#). Please include the date, time, and location of the incident, as well as, your contact information.

What happens when a complaint is made?
The complaint is investigated to determine if a violation of airport noise regulations occurred. If a violation did occur, a Notice of Violation will be issued to the aircraft operator. Aircraft operators are informed that noise limits are monitored and strictly enforced, and of the potential fine amounts. Complaints are kept on file and their locations plotted for trend analysis.

What noise limits are in effect at Montgomery-Gibbs Executive Airport?
The City ordinance-imposed daytime noise limit of 88 decibels is in effect from 6:30 a.m. to 11:30 p.m. The nighttime noise limit of 70 decibels is in effect from 11:30 p.m. to 6:30 a.m. These limits apply in residential areas near the airport. Law enforcement, emergency, fire or rescue aircraft, and medical flights are exempt from the noise limits, as well as, aircraft operated by the federal, state and local government.

Is there a curfew at Montgomery-Gibbs Executive Airport?
No. Montgomery-Gibbs Executive Airport is a public-use airport, and is required to be open at all times.

On the right side of the screenshot, there is a 'Noise Management' sidebar with the following links:

- Noise Management Home
- Complaint Form
- Noise Abatement Information
- Quarterly Noise Report
- NBAA Noise Program
- NBAA Departure Procedures
- NBAA Landing Procedures

Contact Information

Montgomery-Gibbs Executive Airport

[3750 John J. Montgomery Drive](#)

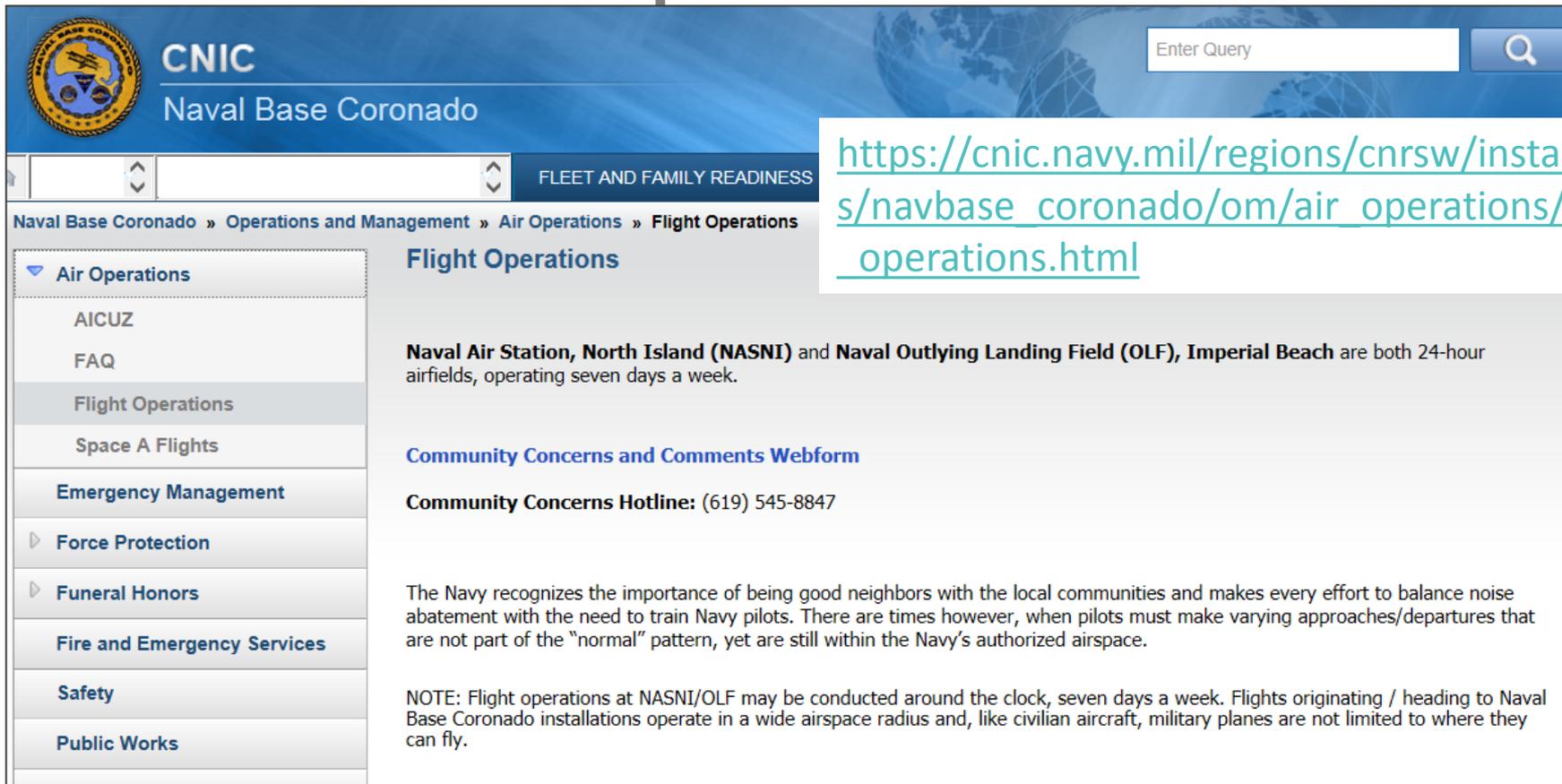
San Diego, CA 92123

Airport Operations: (858) 573-1440

Airport Noise Abatement: (858) 573-1436

<https://www.sandiego.gov/airports/contact>

Other Airport Noise Offices



The screenshot shows the CNIC (Naval Base Coronado) website. The header includes the CNIC logo and the text "CNIC Naval Base Coronado". A search bar is located in the top right corner. The main navigation menu includes "FLEET AND FAMILY READINESS". The breadcrumb trail reads "Naval Base Coronado » Operations and Management » Air Operations » Flight Operations". The left sidebar contains a list of navigation items: Air Operations (expanded), AICUZ, FAQ, Flight Operations, Space A Flights, Emergency Management, Force Protection, Funeral Honors, Fire and Emergency Services, Safety, and Public Works. The main content area is titled "Flight Operations" and contains the following text:

Naval Air Station, North Island (NASNI) and **Naval Outlying Landing Field (OLF), Imperial Beach** are both 24-hour airfields, operating seven days a week.

Community Concerns and Comments Webform

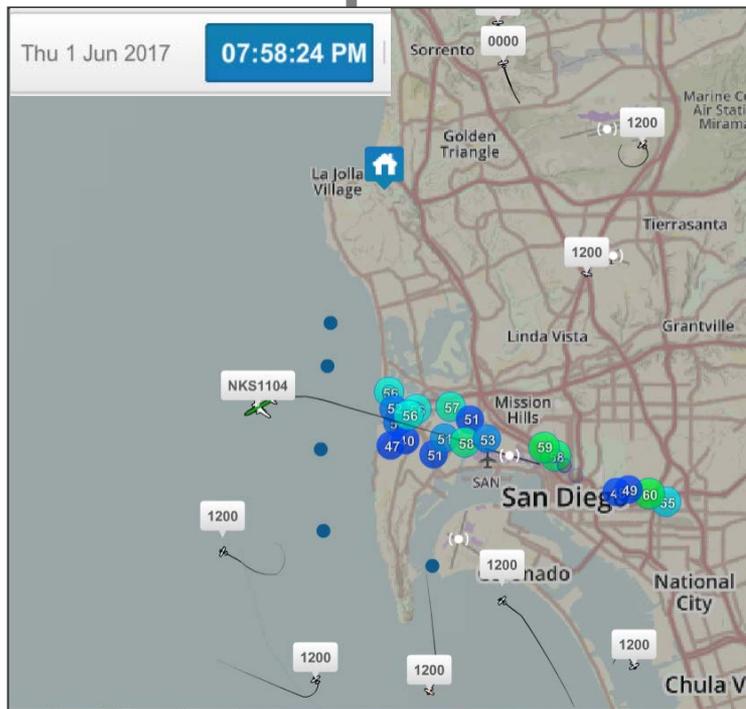
Community Concerns Hotline: (619) 545-8847

The Navy recognizes the importance of being good neighbors with the local communities and makes every effort to balance noise abatement with the need to train Navy pilots. There are times however, when pilots must make varying approaches/departures that are not part of the "normal" pattern, yet are still within the Navy's authorized airspace.

NOTE: Flight operations at NASNI/OLF may be conducted around the clock, seven days a week. Flights originating / heading to Naval Base Coronado installations operate in a wide airspace radius and, like civilian aircraft, military planes are not limited to where they can fly.

https://cnic.navy.mil/regions/cnrsw/installations/navbase_coronado/om/air_operations/flight_operations.html

Example of Complaint We Can't Use

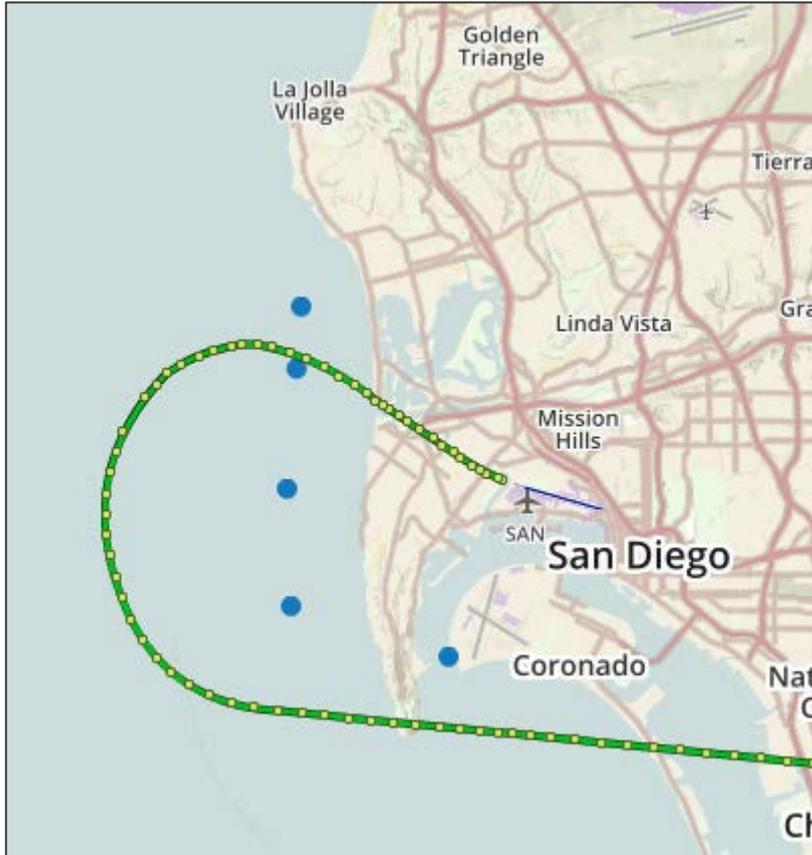


★ COMPLAINT

ENQUIRY #	6985	COMMENT	add comment
DATE/TIME	06/01/2017 19:58		
FILED AT	06/01/2017 19:59		
TYPE	SPECIFIC COMPLAINT		
STATE	CLOSED (06/02/2017 03:19)		
FEEDBACK	NO	REMARK	👁️
SOURCE	WEB		Aircraft type: unknown, Registration: unknown, Operator: unknown, Callsign: unknown, Operation Type: unknown, Altitude: unknown, Route of Flight: unknown
CAUSE	Loud Aircraft	RESPONSE	👁️
REASON	not chosen		
QUALITY	1		
DIRECTION	Unknown		
CPA	alt.: 1700 ft AAL, dist.: 0.2 Mi		
SITUATION	No situation image made		

This complaint does not select what aircraft was concerning to them or why it was concerning. There is no information on the flight.

Example of Complaint that is Helpful



★ COMPLAINT	
ENQUIRY #	4351
DATE/TIME	05/17/2017 23:44
FILED AT	05/18/2017 21:35
TYPE	SPECIFIC COMPLAINT
STATE	CLOSED (05/18/2017 21:35)
FEEDBACK	NO
SOURCE	WEB
CAUSE	Curfew Violation
COMMENT	add comment
REMARK	none

This information is helpful because they picked the specific aircraft that was concerning and selected a reason or cause for their concern.

Demo Noise Complaint

SAN DIEGO
INTERNATIONAL AIRPORT
LET'S GO.

Live
Tue 20 Jun 2017 12:26:51 PM

73°
PARTLY CLOUDY
San Diego International Airport
10 kts

Overview Settings User Guide

Find a location
Enter your location
 Show distance to flight
 Show Point of Closest Approach (PCA)

Airport
San Diego International Airport
Inbound 4 2 Outbound

Concern
[Submit a Noise Concern](#)

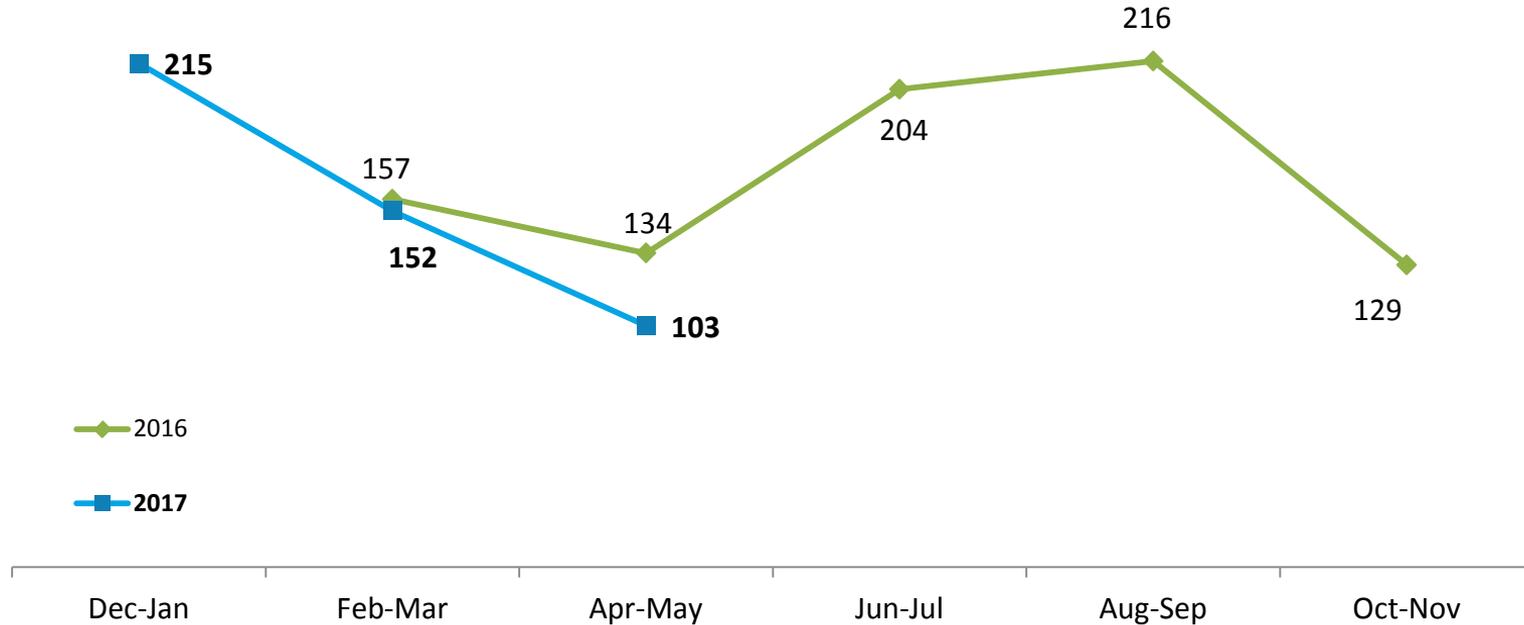
Flight information
Roll over a flight to see more information

South La Jolla State Marine Reserve
Pacific Beach
Mission Beach
Point Loma
Old Town
Mission Hills
Hillcrest
Banker's Hill
San Diego
Coronado
National City
Paradise Hills
Allied Gardens
Del Cerro
Serra Mesa
Normal Heights
City Heights
Encanto
Paradise Hills

JAL66 / JA833J
1200
MYF
1200
ROU1886 / C-FJQL

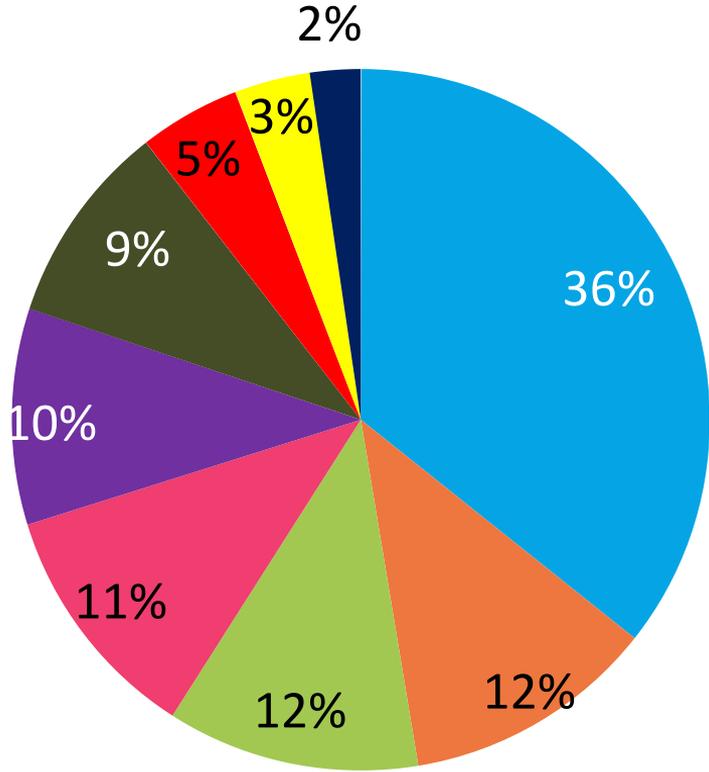
Noise Complaint Statistics

Households by Month*



*Through May 31, 2017

Noise Complaint Breakdown by Household



Reason for Complaint	Number of Households
Loud Aircraft	61
Low Flying	20
General Noise Complaint	20
Suspected Off-Course	19
Early Turn	17
Increased Flight Volume	16
Curfew Violation	8
Low/Loud	6
Missed Approach	4

Households may have had multiple complaint reasons and could be represented in multiple categories. The app does not allow the user to change the reason for complaint; only allows Loud Aircraft.

Noise Complaints by Neighborhood

Neighborhood	Number of Households
La Jolla	23
La Jolla Mesa	16
Point Loma Heights	6
La Jolla Shores	7
Fleetridge	4
Bird Rock	9
Wooded Area	9
Pacific Beach	4
Ocean Beach	3
Loma Portal	3
Sunset Cliffs	8
Other (<2 households)	11
Total	103

April & May 2017

- 32% decrease in complaining households from Feb. & Mar. 2017
- 53% of complaints come from the La Jolla area
- In May alone: The Noise Office responded to 82 households
- In March the noise office was able to respond to 38 households
- New system frees up staff time, enabling them to respond to more residents

Questions ?



Fly Quiet Changes since 4th Quarter

Changes as Compared to Previous Quarter

Curfew scores went up. Carriers such as Sun County, Allegiant and Southwest Airlines that had violations in 4th Quarter, had none in the 1st Quarter.

jetBlue, American and Frontier Airlines increased their overall score by reducing the number of curfew violations and early turns.

Compass airlines decreased their scores with higher numbers of early turns. Overall, early turn scores will increase in 2nd quarter due to the implementation of the FAA SoCal Metroplex procedures on March 2, 2017.

Fly Quiet Score: Curfew Violations

Quietest score

11.0

During 1st Quarter of 2017, American Airlines cancelled 2 flights to avoid curfew violations. 1 point for each cancellation is added to their score.

Curfew Score:
Operator starts with 10 points.
-1 point for curfew violation, no penalty
-2 points for curfew violation with penalty
+1 point if operator cancels a flight to avoid violating the curfew



Fly Quiet Score: Early Turns

Quietest
score = 10

Airlines	# of Early Turns	1st Qtr. Departures	Early Turn Score
Frontier Airlines	0	530	10.0
Allegiant Air	0	196	10.0
British Airways	0	176	10.0
Rouge Air Canada	0	162	10.0
Sun Country Airlines	0	156	10.0
Atlas Air	0	134	10.0
WestJet Airlines	0	128	10.0
jetBlue Airways	1	788	9.5
Japan Airlines	1	184	9.5
Hawaiian Airlines	1	182	9.5
Spirit Airlines	1	692	9.0

Airlines	# of Early Turns	4th Qtr. Departures	Early Turn Score
FedEx	1	616	9.0
UPS	2	230	8.5
Alaska Airlines	4	3,636	8.0
Virgin America	5	902	7.0
Delta Air Lines	10	3,220	3.0
Compass Airlines	12	1,714	2.5
American Airlines	10	4,156	2.0
SkyWest Airlines	14	792	1.5
Southwest Airlines	73	16,214	0.0
United Airlines	29	4,204	0.0

Early Turn Score: Operator starts with 10 points.
 - 0.5 Point Per Early Turn Within 1,500 Feet from Any Noise Dot
 - 1.0 Point Per Early Turn Greater Than 1,500 Feet from Any Noise Dot
Note: In future, points will not be counted if FAA directs the plane to turn.

Fly Quiet Score: Fleet

Fleet Noise Scores

   		10.0
		8.0
 		7.0
   		6.0
  		5.0
  		5.0
   		4.0
 		1.0

Quietest
score = 10

Quieter

Louder

Fleet Score:

FAA Certified Noise Level for each aircraft

Multiplied by the percentage of operations for the quarter.

Carriers are given scores 0 (loudest) to 10 (quietest.)

Questions ?



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