



Santa Monica Airport Monthly Operations Report

March 2023

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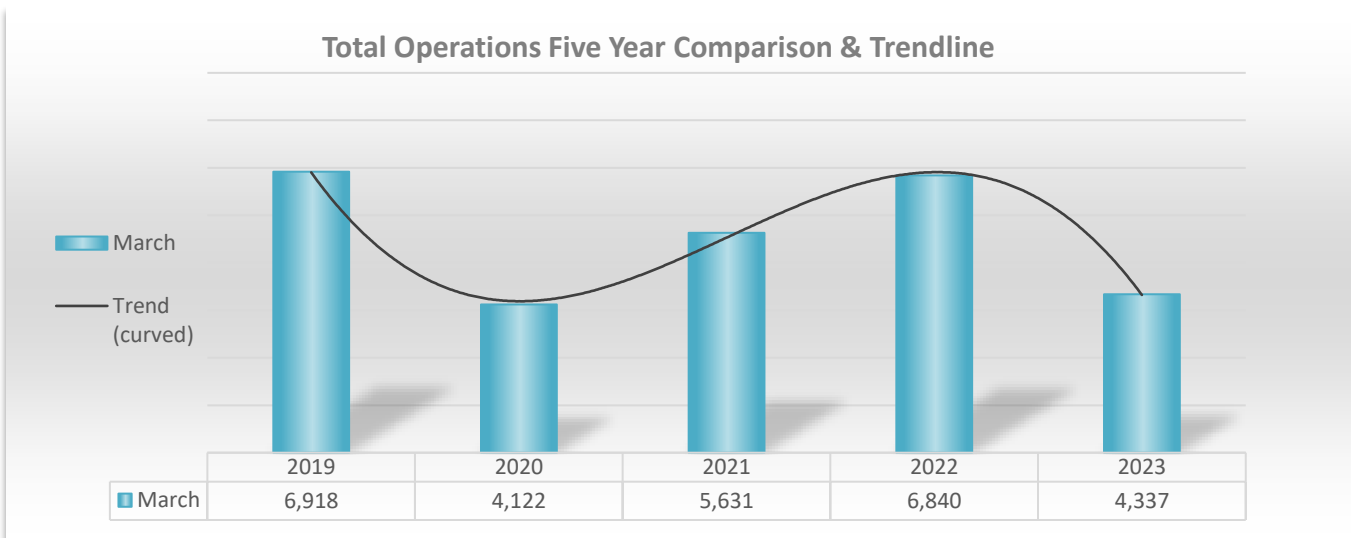
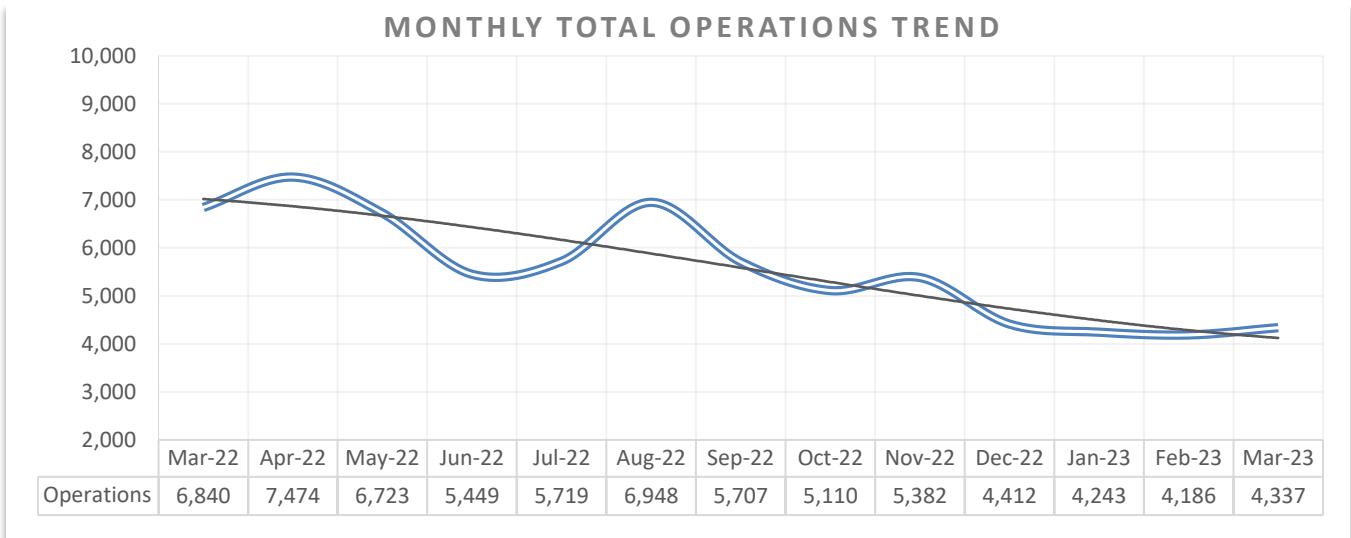
I. Introduction

This report has been prepared to inform the Airport Commission and the general public regarding the Santa Monica Airport’s Noise Management Program. The report provides details on aircraft operations (aircraft operation is defined as one takeoff or one landing), noise violations, deviations to the fly neighborly program, and curfew violations for the month of March 2023.

II. Aircraft Operations Data

The total number of aircraft operations recorded during the month of March 2023 was 4,337, which represents a 37% decrease from the 6,840 operations recorded during March 2022. Approximately 17% of the operations were instrument flights (IFR transient), 35% were local flights (VFR local operations), and 47% were itinerant flights (VFR transient). The official total traffic count is recorded by the Federal Aviation Administration (FAA) control tower. The FAA’s traffic record is included under Attachment A.

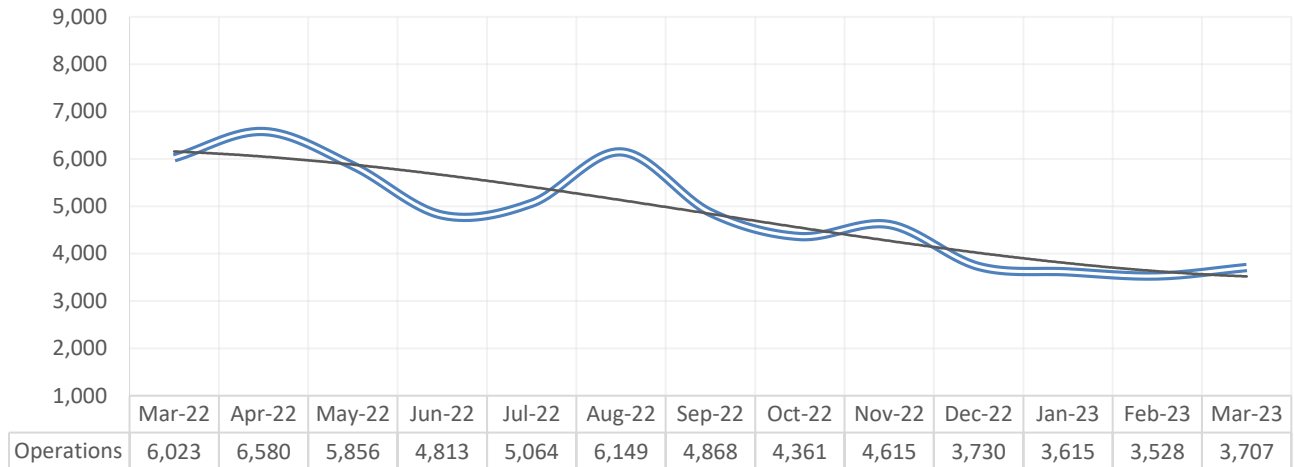
Breakdowns of the total operations grouped by aircraft type and a graph for each type indicating each monthly aircraft operations trend during the preceding 12-month period are as follows.



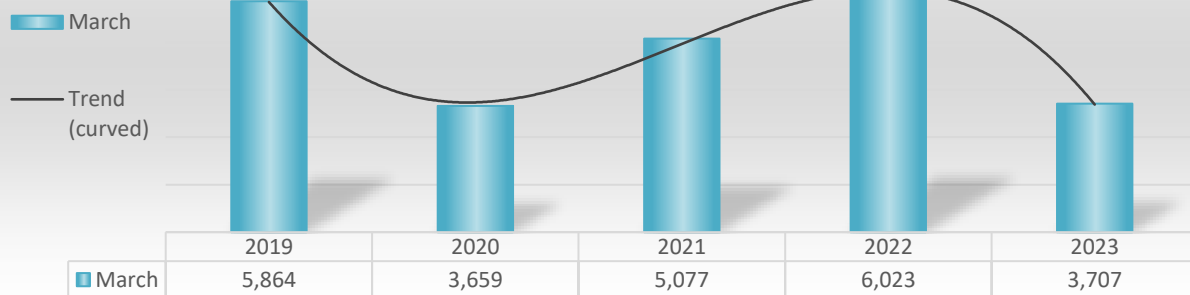
Piston-propeller Aircraft Operations

There were approximately 3,707 piston-propeller aircraft operations recorded, comprising approximately 85% of the total operations. Piston-propeller aircraft operations for March 2023 decreased 38% from the 6,023 piston-propeller aircraft operations recorded during March 2022.

MONTHLY PISTON-PROPELLER OPERATIONS TREND

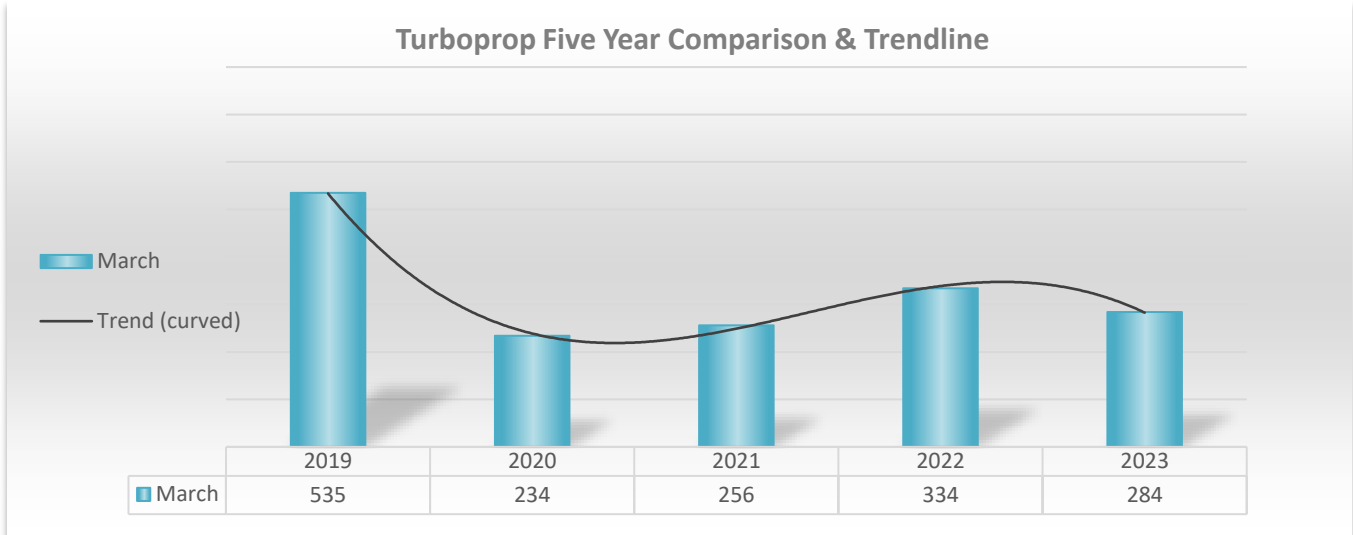
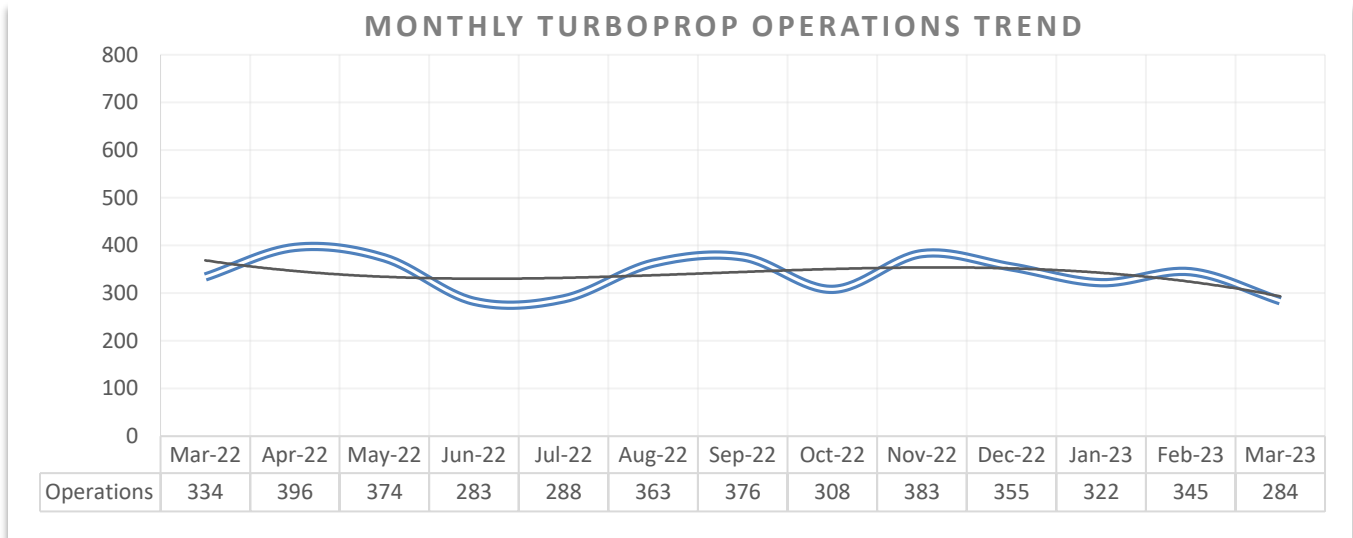


Piston-Propeller Five Year Comparison & Trendline



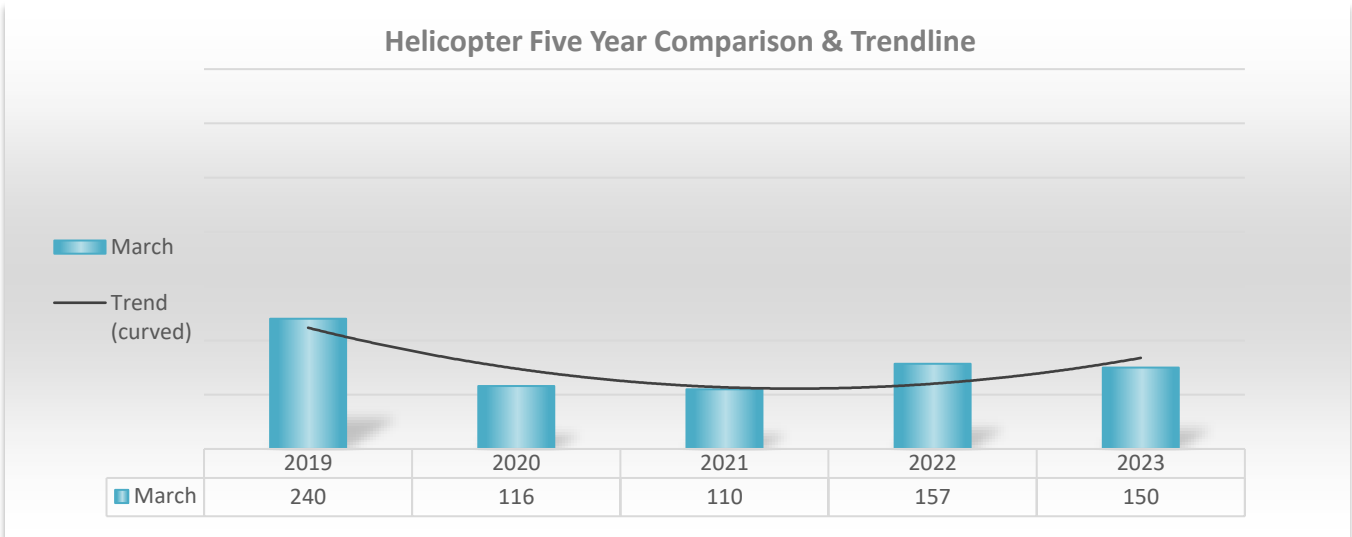
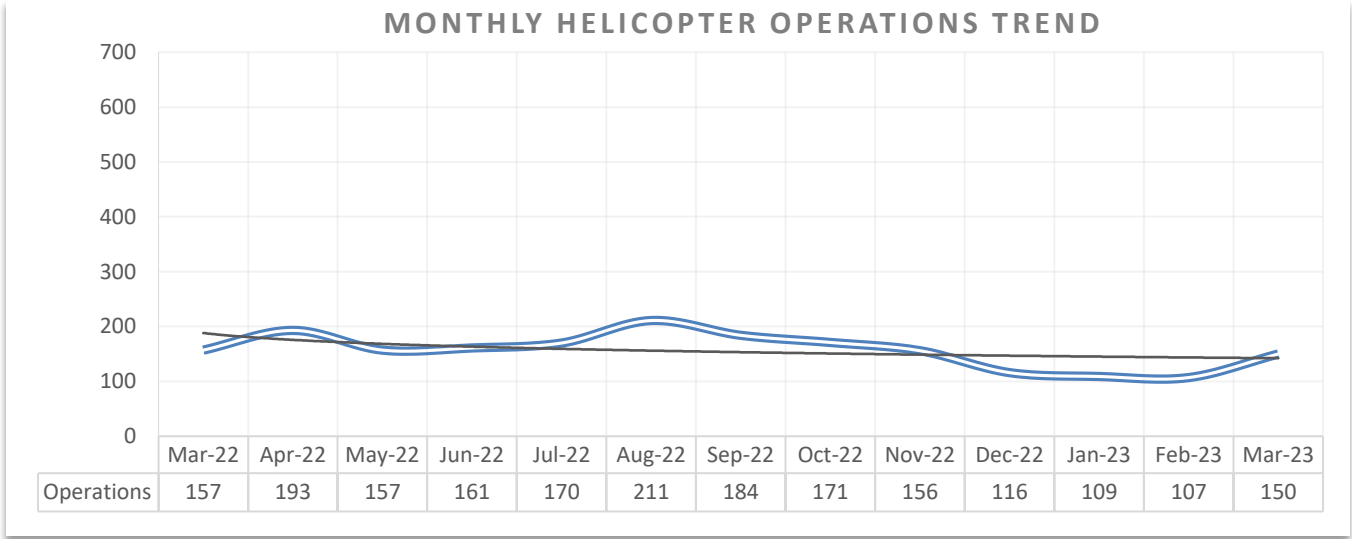
Turboprop Operations

The difference between a turboprop and piston-propeller aircraft is simply their engine type. Turboprops have one or more turbine engines, while piston-propeller aircraft have one or more reciprocating piston engines. Of the total monthly aircraft operations for March 2023, approximately 284 were by turboprop aircraft, comprising approximately 7% of the total operations. Turboprop aircraft operations decreased approximately 15% from the 334 operations recorded during March 2022.



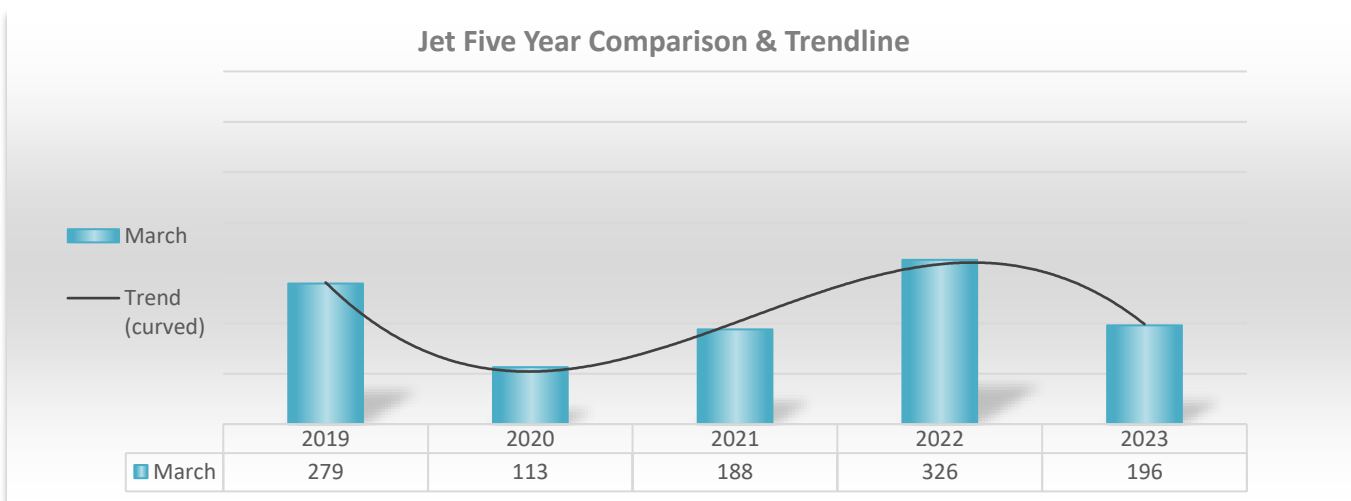
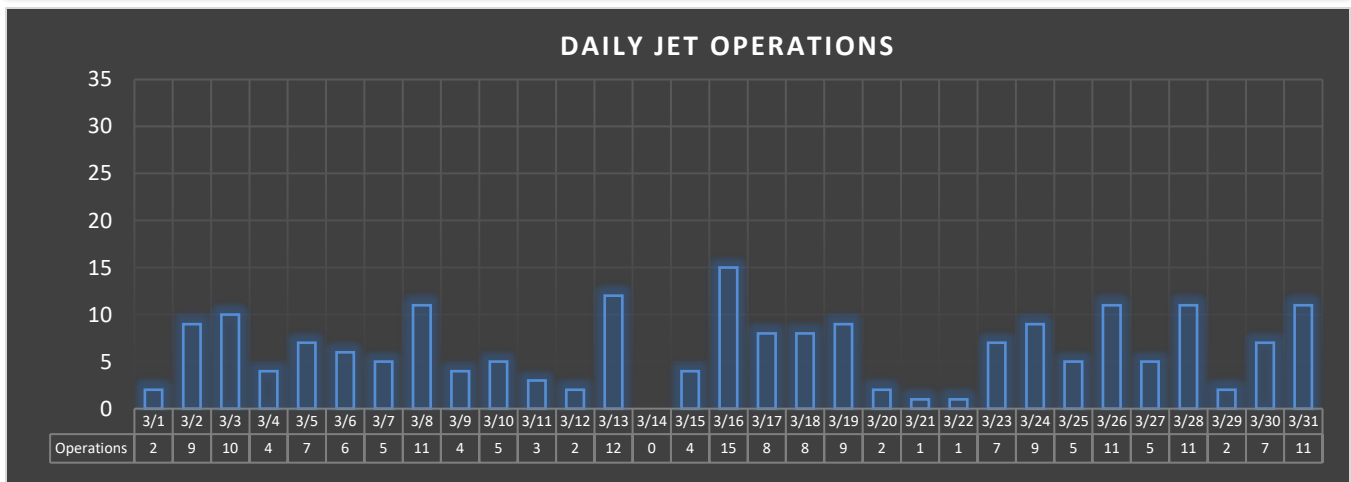
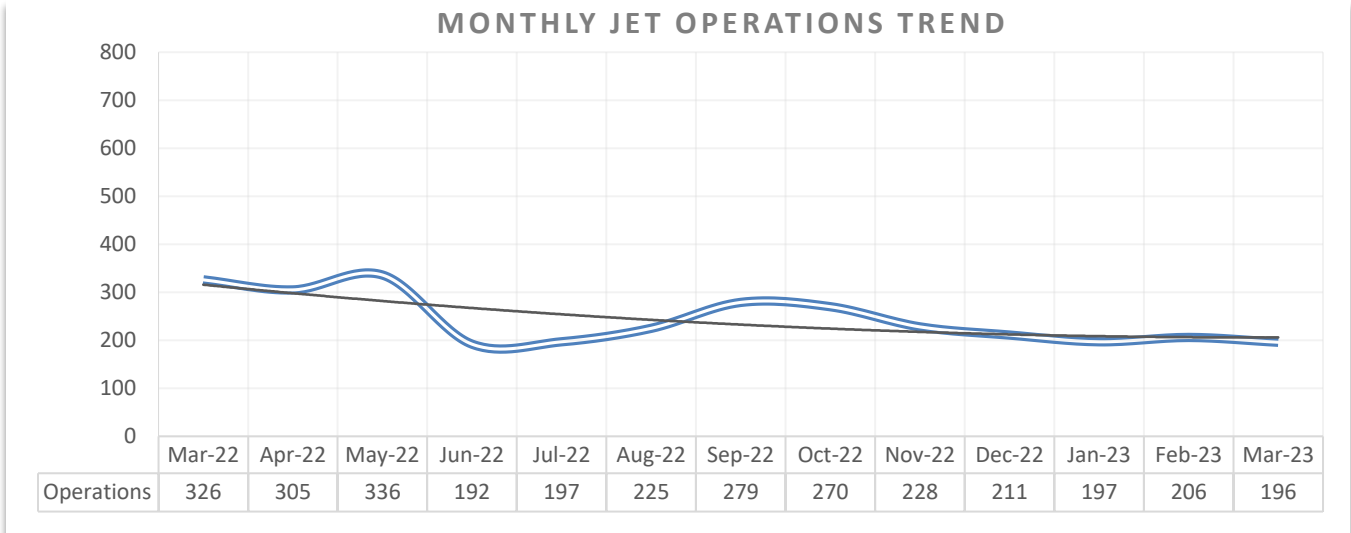
Helicopter Operations

Of the monthly aircraft operations for March 2023, approximately 150 operations are attributed to helicopters, comprising approximately 3% of the total operations. Helicopter operations during March 2023 decreased approximately 4% from the 157 helicopter operations recorded in March 2022.



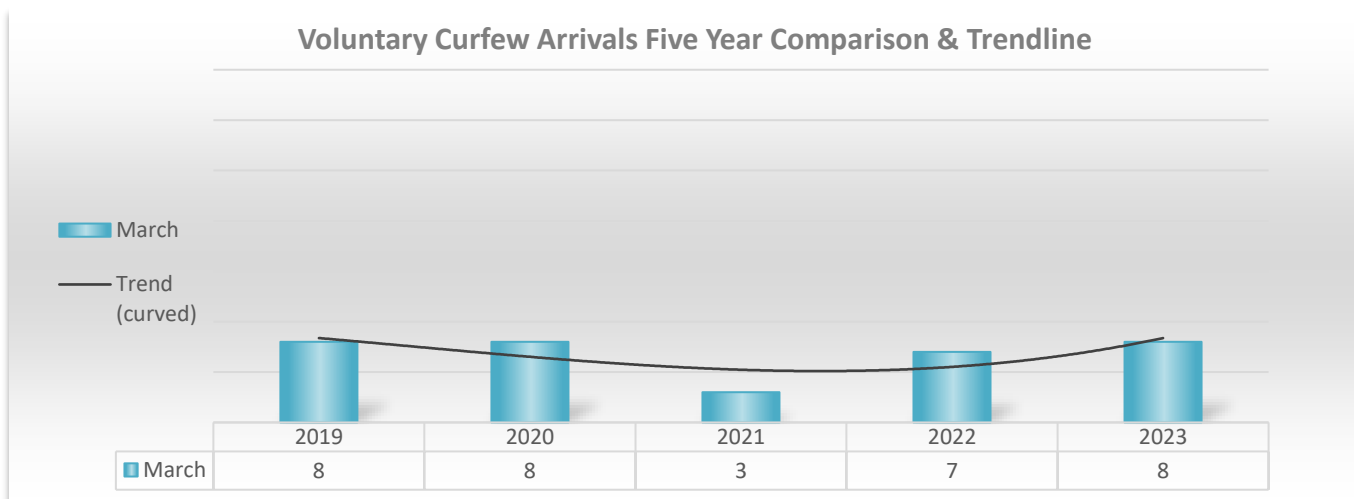
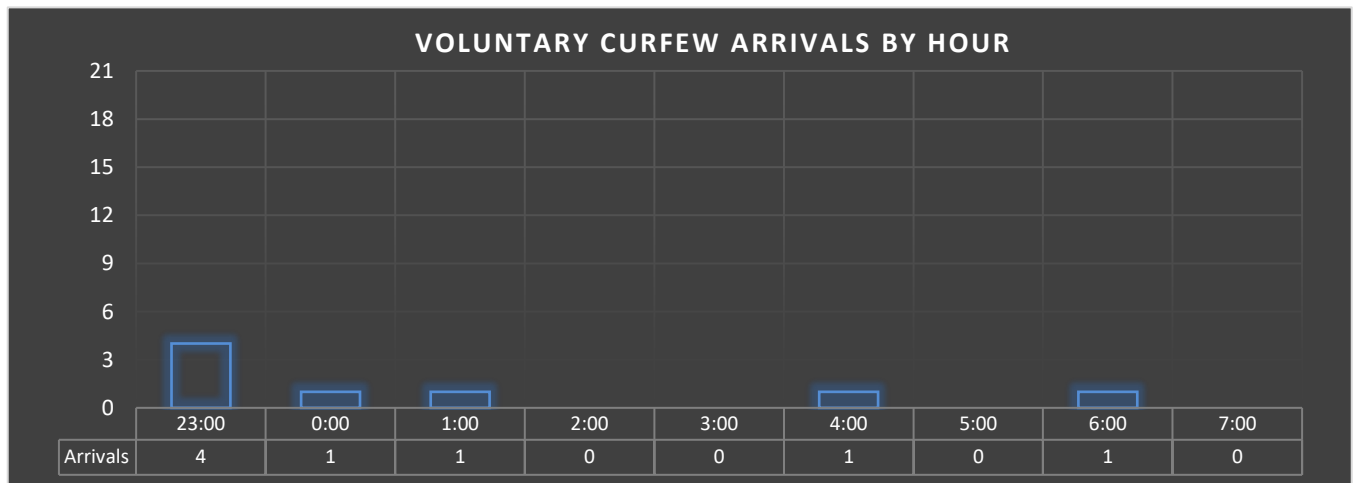
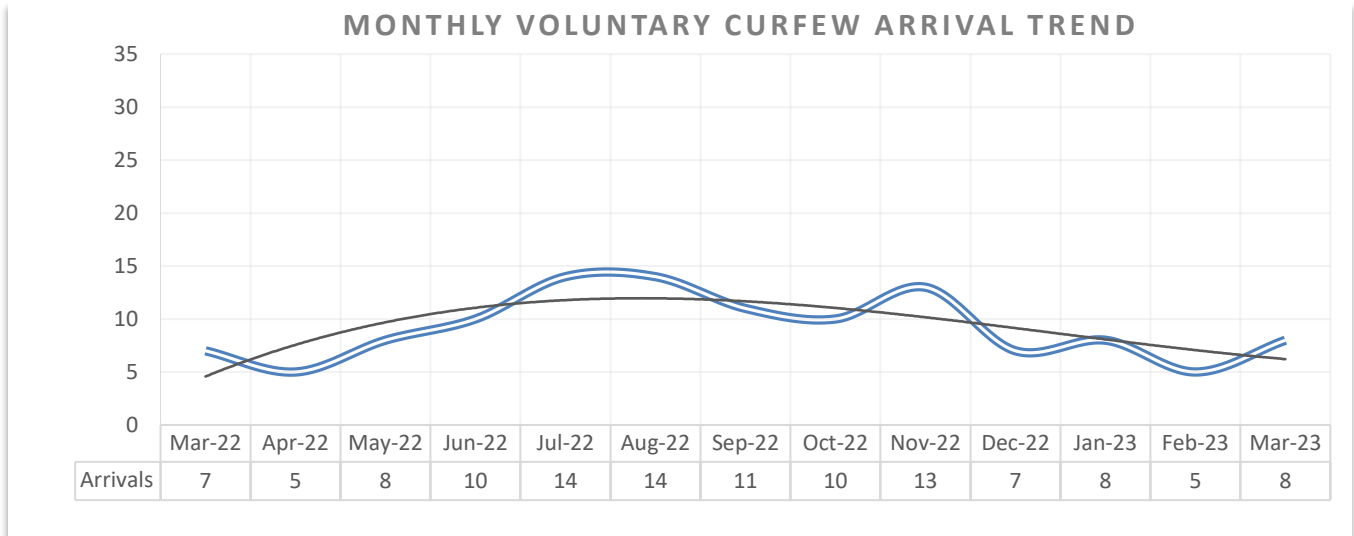
Jet Aircraft Operations

In March of 2023, there were approximately 196 jet operations recorded, encompassing approximately 5% of the total operations. Jet operations for March decreased 40% from the 326 jet aircraft operations recorded during March 2022. Daily jet operations vary significantly day over day. During the month of March 2023, jet aircraft averaged 7 operations per day. The bar graph below represents the monthly and daily operations for jet engine driven aircraft for the month of March 2023.



III. Voluntary Arrival Curfew

During the month of March 2023, Airport Staff logged a total of 8 aircraft arrivals during the Voluntary Arrival Curfew (VAC), which mirrors the mandatory departure curfew hours of 11:00 p.m. to 7:00 a.m. on weekdays, and 11:00 p.m. to 8:00 a.m. on weekends. The graph below depicts the number of arrivals for each VAC hour during the month of March 2023. For a listing of aircraft arrivals during the night hours, see Attachment B.



IV. Authorized Departures & Curfew Violations

The night departure curfew prohibits takeoffs or engine start-ups between 11 p.m. and 7 a.m. Monday through Friday, or until 8 a.m. on weekends. Exceptions are allowed for bona fide medical emergencies or public safety operations. During the month of March 2023, there were no authorized departures during curfew hours, and no curfew violations. For more details refer to Attachment C.

V. Deviations from Recommended VFR Noise Management Procedures

Santa Monica Airport requests that arriving and departing VFR aircraft follow certain flight patterns for Noise Management. Aircraft that are observed to be operating outside of the requested flight patterns are contacted and advised of the proper Noise Management procedures. During the month of March 2023 airport staff spent several hours analyzing aircraft adherence to the requested noise management procedures. Staff contacted those aircraft operators observed to be deviating from established VFR procedures, requesting compliance with the Airport’s Recommended Noise Management Procedures. Operators who deviated due to weather, traffic or given a mandatory instruction from Air Traffic Control are not contacted by staff.

VI. Noise Management Briefings

Many aircraft are capable of meeting the 95.0 dBA maximum SENEL limit with changes in pilot technique or aircraft operating weight. The goal of the Santa Monica Airport’s Noise Management Program is to communicate methods or techniques, which will lower aircraft noise levels, which in turn will minimize the impact of aircraft operations to the surrounding community.

VII. Noise Violations

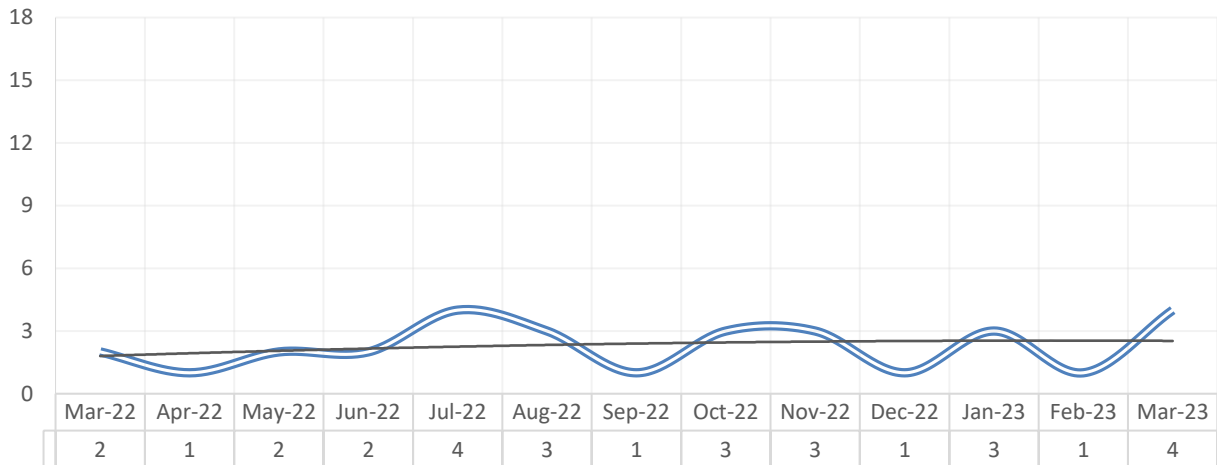
Santa Monica Airport enforces a maximum noise limit as approved by City Ordinance adopted in 1985. The Santa Monica Municipal Code section 10.04.04.060 states that “No aircraft shall exceed a Single Event Noise Exposure Level (SENEL) of 95.0 dBA as measured at the Airport Noise Measuring Stations existing on March 1, 1985.” The only Remote Monitoring Stations (RMS) that can be used for the enforcement of the 95.0 dBA SENEL are RMS 1 and RMS 2. These monitors are located approximately 2,200 feet from each end of the runway. See Attachment E for the location of RMS 1 & RMS 2 and Attachment F for the definition of SENEL.

A violation occurs when an aircraft exceeds 95.0 dBA SENEL. During the month of March 2023, there were 4 noise violations recorded, a 100% increase from the 2 noise violations recorded during March 2022. A summary of noise violations for March 2023 is listed on attachment D. Of the 4,337 aircraft operations recorded during the month of March 2023, 99.9% of the operations were in compliance with Santa Monica Airport’s noise ordinance. The noise violations listed in the table below were registered at RMS sites 1 or 2 and do not include noise exceedances due to extraneous factors (loss of power, the need to avoid other aircraft, or unusual weather conditions); nor do they include exempt or medical emergency aircraft operations.

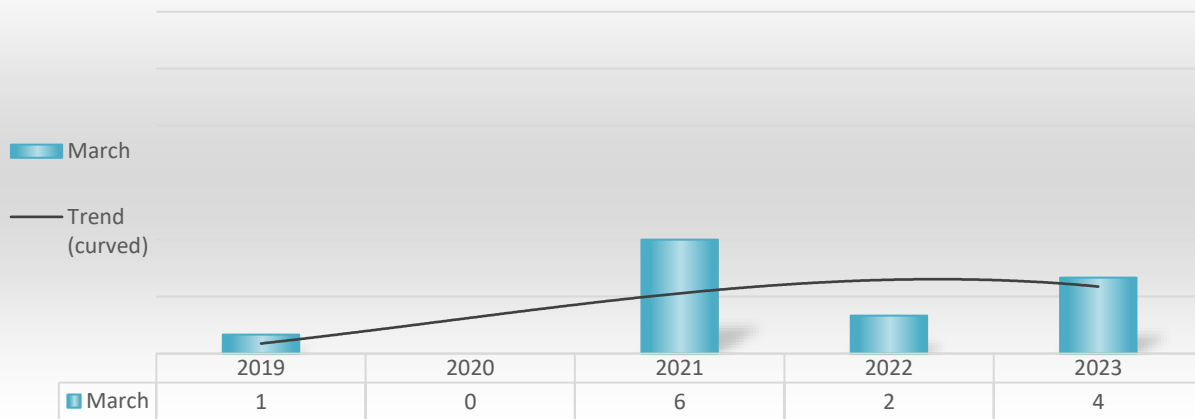
Violations Breakdown by Decibel Level

Aircraft & SENEL	95.1 to 95.9	96.0 to 96.9	97.0 to 97.9	98.0 to 98.9	99.0 to 99.9	100.0 to 104.9	105.0+	Total	%
Jet	0	1	0	0	0	1	0	2	50%
Propeller	1	0	0	0	0	0	0	1	25%
Helicopter	0	1	0	0	0	0	0	1	25%
Total:	1	2	0	0	0	1	0	4	
%	25%	50%	0%	0%	0%	25%	0%		100%

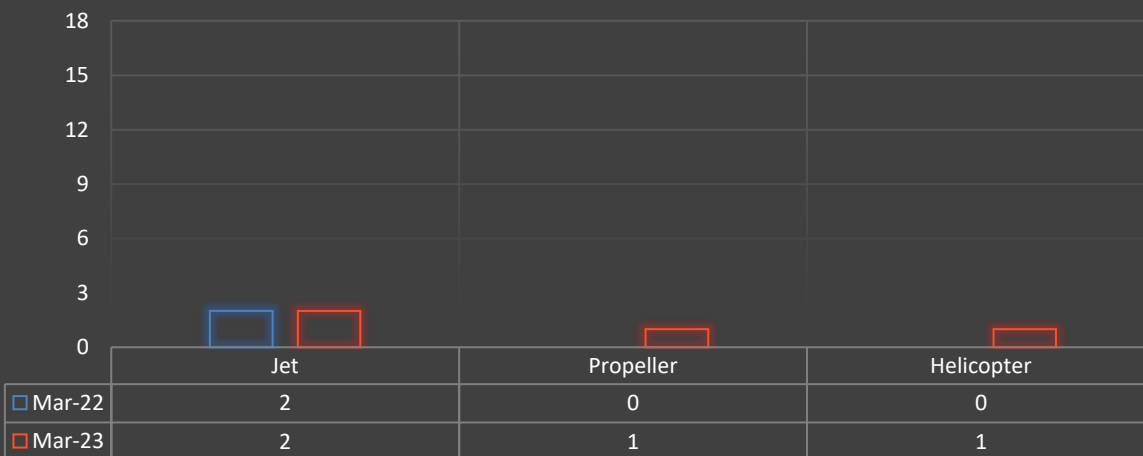
MONTHLY NOISE VIOLATIONS TREND



Noise Violations Three Year Comparison & Trendline

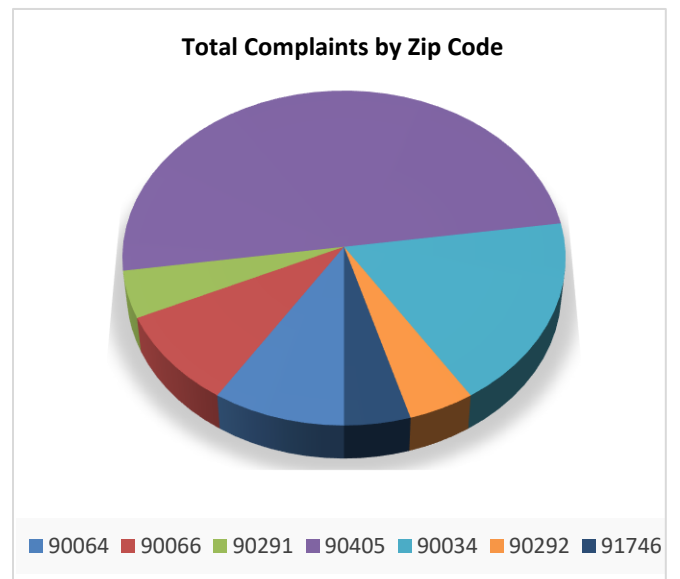
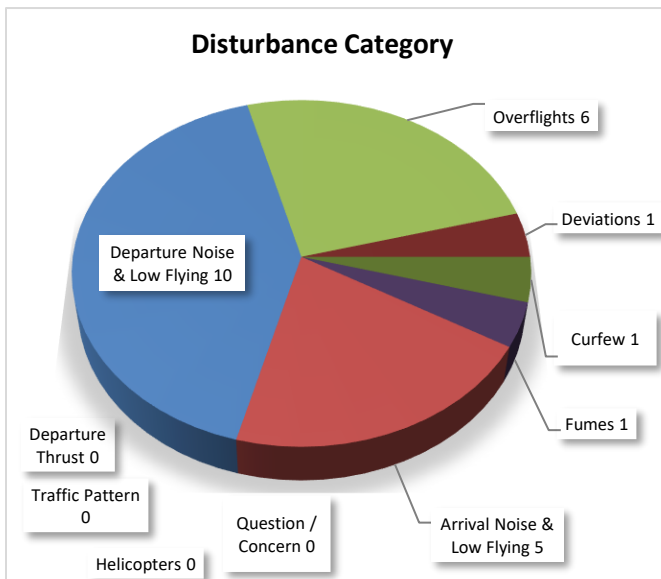
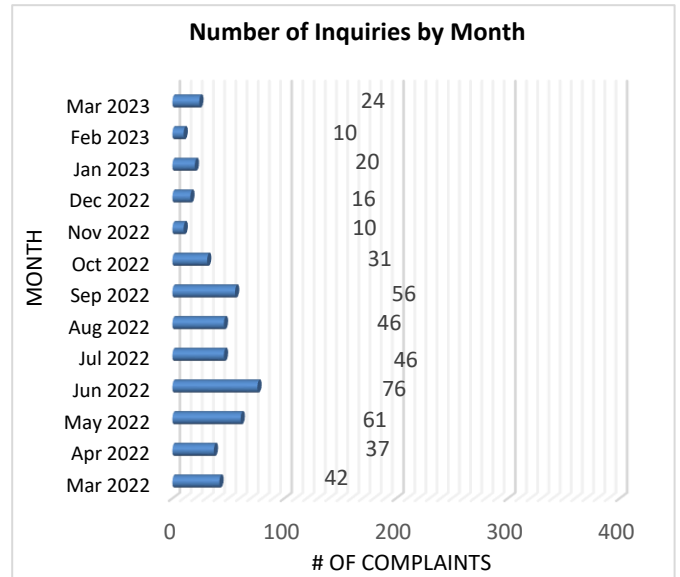
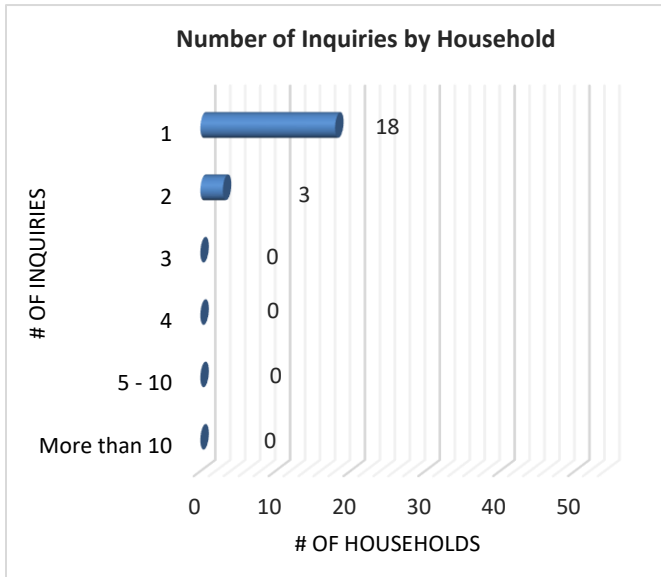


NOISE VIOLATIONS BY AIRCRAFT TYPE

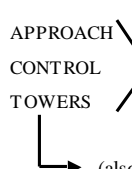



VIII. Aircraft Related Inquiries

During the month of March 2023, 22 individual households logged a total of 24 reports about aircraft operations. These inquiries were investigated, and proper actions were taken in accordance with the Airport’s “Fly Neighborly Program” and the City of Santa Monica’s “Noise Code”. The following charts provide a breakdown of the inquiries noise management staff investigated during the month of March 2023.



ATTACHMENT A

AIRPORT TRAFFIC RECORD	FACILITY NAME	LOCATION	03 / 23	SMO						
Mail ORIGINAL of this form to Washington Office, APO-110, thru Regional Air Traffic Division.	Santa Monica ATCT	Santa Monica, California	(1-2) (3-4) MO. YR.	(5-9) LOCID						
(10-1) FACILITY TYPE ("X" ONE) (11) APPROACH CONTROL TOWERS  <input type="checkbox"/> B. RADAR <input type="checkbox"/> C. LIMITED RADAR <input type="checkbox"/> D. NON-RADAR <input checked="" type="checkbox"/> E. VFR TOWER <input type="checkbox"/> G. CONTRACT TOWER (Continue on reverse)	FACILITY TYPE CHANGED (12) <input type="checkbox"/> YES		IF DAILY HOURS OF OPERATION HAVE CHANGED, ENTER NEW HOURS HRS. 10 THS <input type="checkbox"/>  (77-78) (79)							
AIRPORT OPERATIONS COUNT										
	ITINERANT				LOCAL			TOTAL	SPECIAL	
DAY (15-16)	AC (17-21)	AT (22-26)	GA (27-31)	MIL (32-36)	TOTAL ITINERANT	CIVIL (37-41)	MILITARY (42-46)	TOTAL LOCAL	OPERATIONS	USE (47-51)
1	0	3	16	0	19	0	0	0	19	19
2	0	5	177	0	182	71	0	71	253	272
3	0	14	172	0	186	157	0	157	343	615
4	0	6	89	0	95	67	0	67	162	777
5	0	3	45	0	48	56	0	56	104	881
6	0	15	89	0	104	53	0	53	157	1038
7	0	9	115	0	124	52	0	52	176	1214
8	0	16	87	0	103	65	0	65	168	1382
9	0	16	131	0	147	107	0	107	254	1636
10	0	2	10	0	12	0	0	0	12	1648
11	0	0	12	0	12	0	0	0	12	1660
12	0	4	29	0	33	0	0	0	33	1693
13	0	9	39	0	48	4	0	4	52	1745
14	0	0	5	0	5	0	0	0	5	1750
15	0	6	26	0	32	6	0	6	38	1788
16	0	13	103	0	116	139	0	139	255	2043
17	0	12	127	4	143	79	0	79	222	2265
18	0	9	164	0	173	46	0	46	219	2484
19	0	7	54	0	61	26	0	26	87	2571
20	0	8	47	0	55	10	0	10	65	2636
21	0	0	3	0	3	0	0	0	3	2639
22	0	1	15	0	16	0	0	0	16	2655
23	0	13	90	0	103	59	0	59	162	2817
24	0	7	102	0	109	71	0	71	180	2997
25	0	7	189	0	196	82	0	82	278	3275
26	0	22	96	0	118	20	0	20	138	3413
27	0	8	130	2	140	46	0	46	186	3599
28	0	8	136	0	144	139	0	139	283	3882
29	0	5	43	0	48	44	0	44	92	3974
30	0	4	75	0	79	44	0	44	123	4097
31	0	14	130	0	144	96	0	96	240	4337
TOTAL	0	246	2546	6	2798	1539	0	1539	4337	

ATTACHMENT A

<i>THIS SIDE</i> FOR USE BY VFR TOWERS ONLY (ALL Approach Control Terminals MUST use FAA Form 7230-26)					ALL VFR Towers recording Instrument Operations on this side MUST COMPLETE		/02 (1-2) (3-4) MO. YR.	SMO (5-9) LOC ID	ADP CONTROL 10-4
INSTRUMENT OPERATIONS							REMARKS		
DAY	AC	AT	GA	MILITARY	TOTAL (10 - E) (14 - 1)				
1	0	3	10	0	(16-19)	13			
2	0	5	17	0	(20-23)	22			
3	0	10	16	0	(24-27)	26			
4	0	4	27	0	(28-31)	31			
5	0	3	20	0	(32-35)	23			
6	0	14	13	0	(36-39)	27			
7	0	8	10	0	(40-43)	18			
8	0	10	18	0	(44-47)	28			
9	0	8	15	0	(48-51)	23			
10	0	2	10	0	(52-55)	12			
11	0	0	12	0	(56-59)	12			
12	0	4	29	0	(60-63)	33			
13	0	8	30	0	(64-67)	38			
14	0	0	4	0	(68-71)	4			
15	0	6	18	0	(72-75)	24			
16	0	11	42	0	(76-79)	53			
(14-2)									
17	0	11	14	0	(16-19)	25			
18	0	5	17	0	(20-23)	22			
19	0	5	20	0	(24-27)	25			
20	0	4	34	0	(28-31)	38			
21	0	0	3	0	(32-35)	3			
22	0	1	9	0	(36-39)	10			
23	0	7	25	0	(40-43)	32			
24	0	6	22	0	(44-47)	28			
25	0	2	22	0	(48-51)	24			
26	0	12	25	0	(52-55)	37			
27	0	5	17	0	(56-59)	22			
28	0	5	10	0	(60-63)	15			
29	0	5	22	0	(64-67)	27			
30	0	4	19	0	(68-71)	23			
31	0	14	10	0	(72-75)	24			
TOTAL	0	182	560	0		742			
	(17-21)	(22-26)	(27-31)	(32-36)					
FACILITY USE									

ATTACHMENT B
Registered Noise Levels for Night Arrivals
 11 p.m. to 7 a.m. Weekdays
 11 p.m. to 8 a.m. Weekends

DATE	TIME	NUMBER	TYPE	RWY	SENEL	RMS	COMPANY NAME	ENGINE
3/2/23	6:47	N473PC	PC12	3	90.9	1	ALLI57 LLC	P
3/9/23	0:04	N7645F	P28A	3	80.4	1	PROTEUS AIR SERVICES	P
3/16/23	23:10	N948CP	C182	21	76.9	2	CIVIL AIR PATROL	P
3/25/23	1:03	N84347	C172	3	71.7	1	MARCO GIOVANNINI	P
3/25/23	4:49	N353MV	C172	3	69.9	1	SANTA MONICA FLYERS	P
3/25/23	23:41	N724TT	SR20	3	78.5	1	PROTEUS AIR SERVICES	P
3/30/23	23:20	N974TA	C172	21	DNR	2	SANTA MONICA FLYERS	P
3/31/23	23:13	N84347	C172	3	68.2	1	MARCO GIOVANNINI	P

ATTACHMENT C
(Authorized Departures & Curfew Violations)

Authorized Curfew Departures

NONE

Curfew Violations

NONE

**ATTACHMENT D
(Aircraft Noise Violations)**

AIRCRAFT ENGINE CATEGORY LEGEND

(J) = Jet (P) = Piston-propeller
(T) = Turboprop (H) = Helicopter

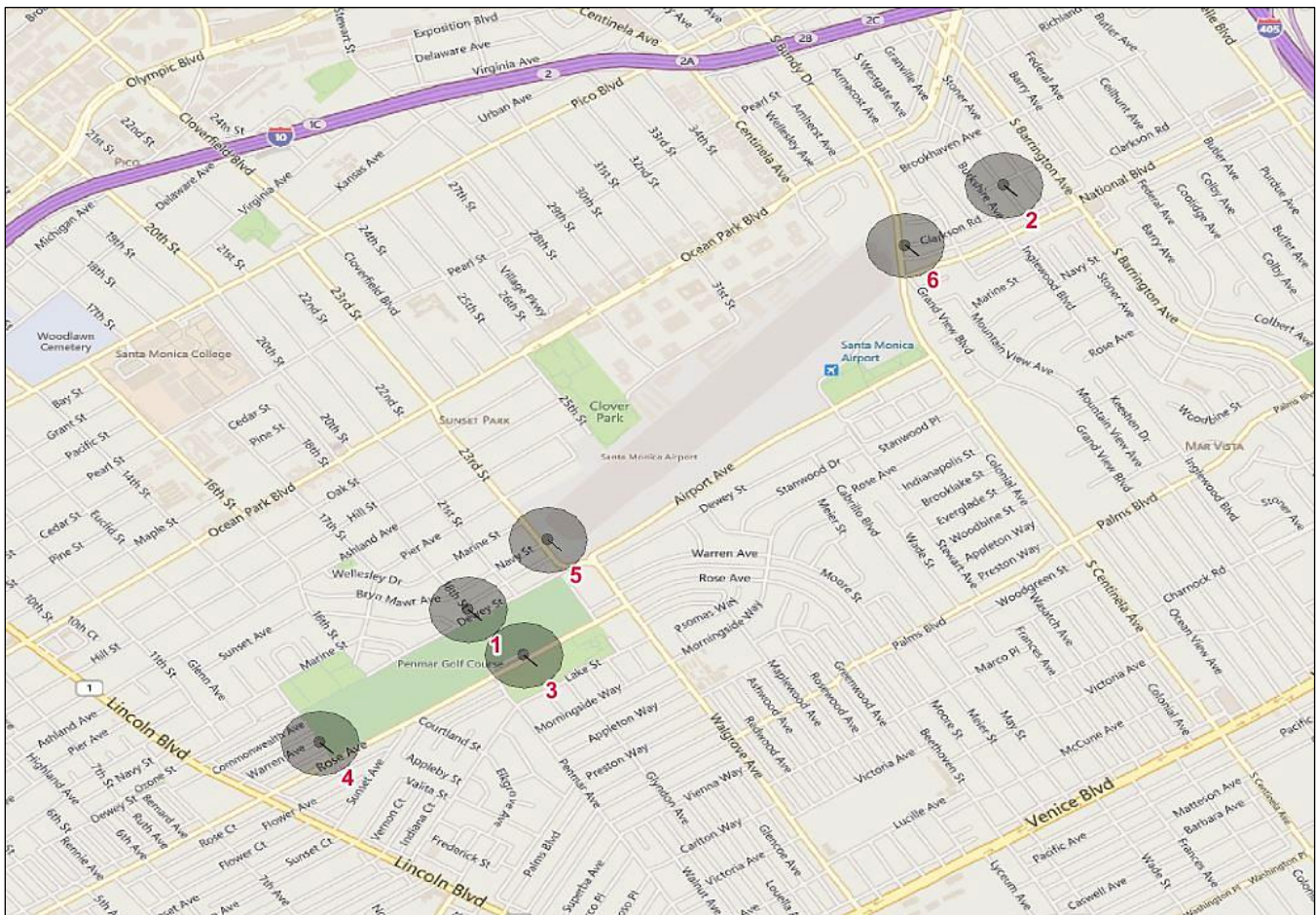
DATE	TIME	NUMBER	TYPE	RWY	SENEL	RMS	COMPANY NAME	ACTION	ENGINE
3/13/23	16:13	N918TR	B429	21	96.6	2	PHOENIX AVIATION SOLUTIONS / BANK OF UTAH	WARNING	H
3/15/23	9:10	N15SL	C560	21	101.5	1	CP ULTRA LLC	WARNING	J
3/19/23	16:15	N336M	BE36	21	95.3	1	ENRIQUE SALCEDO	WARNING	P
3/30/23	20:55	N819KR	C550	21	96.4	1	PRESTIGE WORLD WIDE FLIGHTS LLC	WARNING	J

Unenforceable Noise Events

DATE	TIME	NUMBER	TYPE	RWY	SENEL	RMS	COMPANY NAME	REASON
3/17/23	11:06	CYO88	HELO	21	96.6	2	U.S. MARINES	MILITARY
3/26/23	16:52	N333FX	E55P	21	96.3	2	FLEXJET	MISSED APPROACH

ATTACHMENT E Location of Remote Noise Monitoring Stations (RMS)

- RMS – 1** 18th Street, Between Dewey Street & Navy Street, Santa Monica
- RMS – 2** Sardis Street and Granville Street, West Los Angeles
- RMS – 3** Penmar Golf Course, 1233 Rose Avenue, Venice
- RMS – 4** West-end of Penmar Golf Course on Warren Avenue, Venice
- RMS – 5** 23rd Street & Navy Street, Santa Monica
- RMS – 6** Bundy Ave & Clarkson Road/Ct, West Los Angeles



Note: ONLY Remote Monitoring Stations 1 & 2 are used for the Enforcement of the 95.0 dBA Single Event Noise Exposure Level (SENEL) maximum allowable noise level.

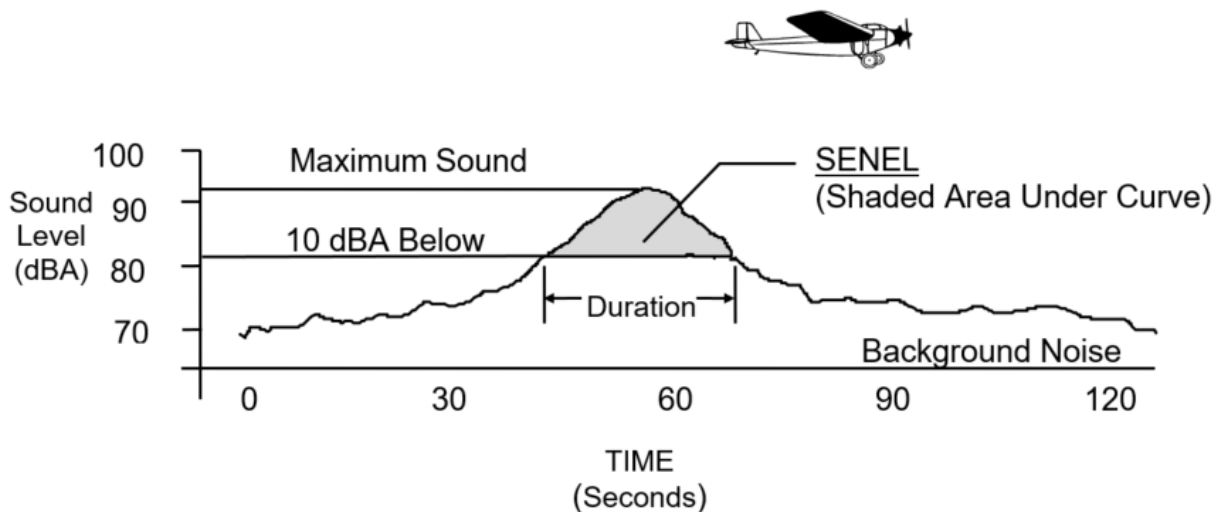
ATTACHMENT F (Single Event Noise Exposure Level)

Definition of Single Event Noise Exposure Level (SENEL)

As a result of an agreement between the City of Santa Monica and the FAA, an Airport Ordinance was established setting a maximum noise level of 95.0 dBA Single Event Noise Exposure Level (SENEL) measured at noise monitor sites 2,200 feet from each end of the runway.

As an aircraft approaches each noise monitor, the sound of the aircraft begins to rise above the threshold level. The closer the aircraft gets, the louder it is until the aircraft is at its closest point directly overhead. As the aircraft passes, the noise level decreases until the sound settles below the threshold level. Such a history of a flyover is plotted in the graph below. The highest noise level reached during the flyover is called the “Maximum Noise Level”, or LMax. Referring to the same graph, the area within 10 dB of the LMax is the area from which the SENEL is computed. This metric takes into account the maximum noise level and the duration of the event. The SENEL value is always higher than the LMax value for aircraft events.

Single Event Noise Exposure Level (SENEL)



A-WEIGHTED SOUND LEVEL (dBA) – The sound pressure level in decibels as measured on a sound level meter using the A-Weighted filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the response of the human ear. It is a numerical method of rating human judgment of loudness.