





Camarillo Airport

14 CFR Part 150 Noise Compatibility Planning Study Update



Agenda

- 1. Welcome and Introductions
 - Keith Freitas, Ventura County Department of Airports
- 3. Five Key Takeaways for this Meeting
 - Dave Nafie, Ventura County Department of Airports
- 2. Study Process
 - Kory Lewis, Coffman Associates
- 4. Noise Exposure Contour Development
 - Kory Lewis, Coffman Associates
- 5. Noise Impacts
 - Kory Lewis, Coffman Associates
- 6. Noise Measurement Program
 - Madeline Holliman, Coffman Associates
- 7. Where Do We Go From Here?
 - Dave Fitz, Coffman Associates
- 8. PAC Discussion
 - Laura Hernandez, Arellano Associates
- 9. Adjournment



Welcome and Introductions





Five Key Takeaways for this Meeting





Five Key Takeaways for this Meeting

- Review NEM vs NCP
- *Review Modeling vs. Measurements*
- Understand CNEL (Averaged) vs SEL (Measured)
- Understand FAA Approvals Their Limits
- Know where we go from here







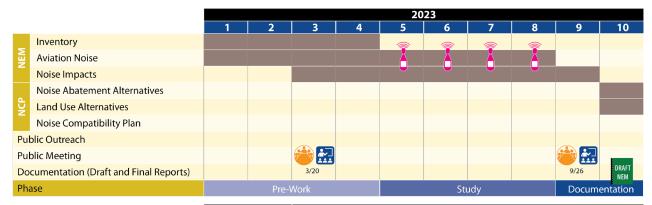








Project Timeline

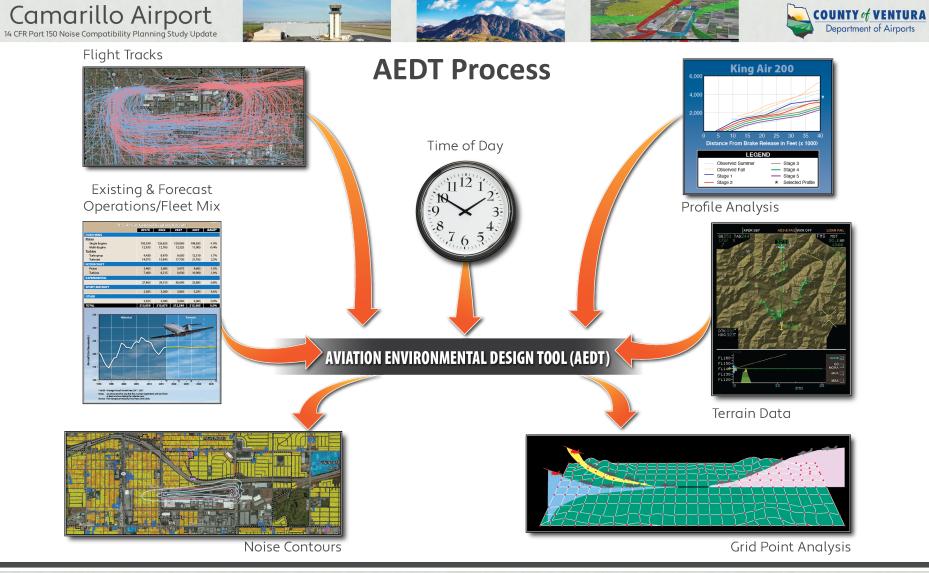






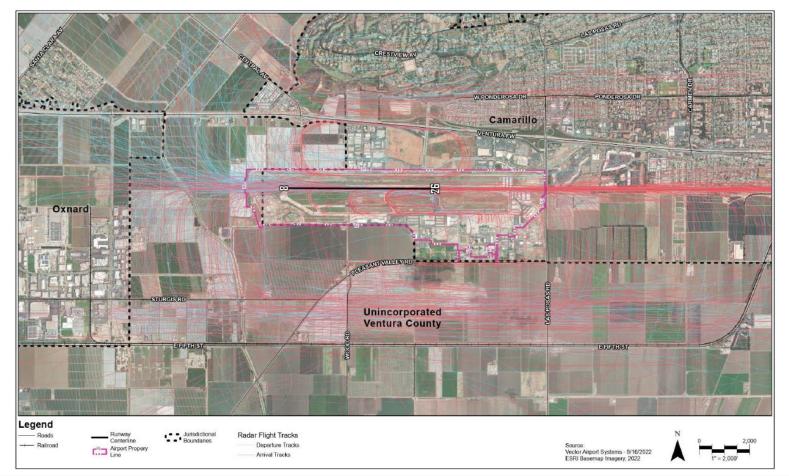
Noise Contour Development





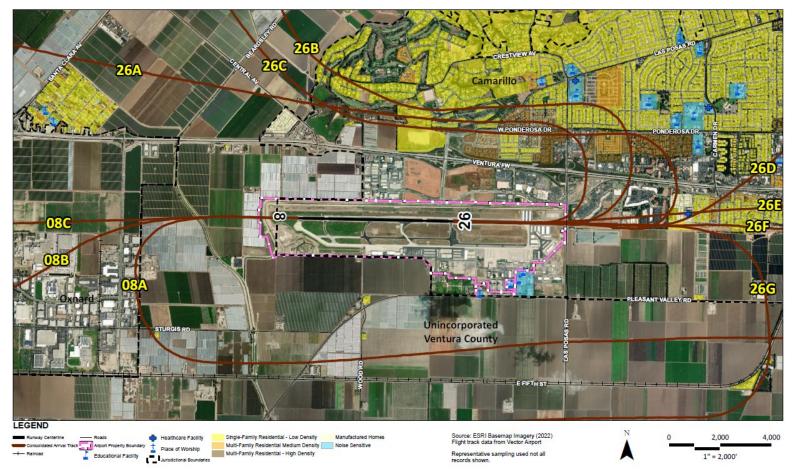


Radar Flight Tracks



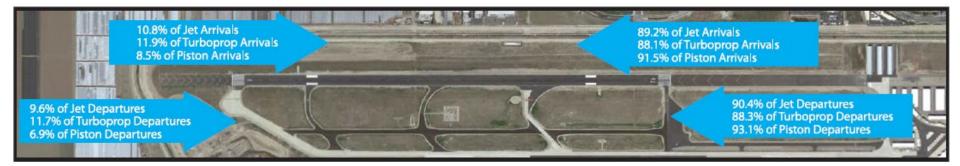


Consolidated Arrival Flight Tracks





Runway Use



Time of Day

Day (0 dB Weighting Factor)	Evening (5 dB Night (10 dB Weighting Factor)
Jet 87.3% Turboprop 90.7% Piston 91.5% Helicopter 94.2%	Jet 7.4% Turboprop 6.8% Piston 7.7% Helicopter 3.5%
7 8 9 10 11 12 1 2 3 4 5 6	7 8 9 10 11 12 1 2 3 4 5 6







Forecast Summary

	2022	2027	2032	2042
ANNUAL OPERATIONS				
ltinerant				
Air Taxi	3,220	3,578	4,400	5,225
General Aviation	79,760	84,546	88,648	101,181
Military	118	476	476	476
Total Itinerant Operations	83,098	88,599	93,523	106,882
Local				
General Aviation	103,490	103,849	105,578	109,201
Military	488	89	89	89
Total Local Operations	103,978	103,938	105,667	109,290
Total Annual Operations	187,076	192,538	199,191	216,172
Annual Instrument Approaches	12,465	13,290	14,029	16,032
BASED AIRCRAFT				
Single Engine	280	285	290	303
Multi-Engine Piston	24	24	24	24
Turboprop	4	8	13	25
Jet	21	31	37	62
Helicopter	21	23	25	30
Total Based Aircraft	350	371	389	444

The FAA has oversight responsibility to review and approve the aviation forecasts developed in conjunction with the Part 150 Noise Compatibility Study. Approved 6-1-2023.

Camarillo Airport 14 CFR Part 150 Noise Compatibility Planning Study Update







Operational Fleet Mix

TABLE 3C Operational Fleet Mix – Camarillo Airport									
Aircraft Type ¹	AEDT Designator ²	2022 Operations ³	2027 Operations ⁴						
GA Itinerant Operations									
Single-Engine Piston, Fixed	GASEPF	30,010	28,259						
Single-Engine Piston, Variable	GASEPV	30,010	28,259						
Multi-Engine Piston	BEC58P	3,885	3,885						
Multi-Engine Piston	PA30	315	315						
Helicopter, Small	R44	1,057	1,157						

TABLE 3C | Operational Fleet Mix – Camarillo Airport

Aircraft Type ¹	4	AEDT Designator ²		2022 Operatio	ons ³ 2027 Operations ⁴
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Single-Engine Piston, Variable		GASEPV		30,010	28,259
Multi-Engine Piston		BEC58P		3,885	3,885
Multi-Engine Piston		PA30		315	315
Helicopter, Small		R44		1,057	1,157
Helicopter, Small		EC130		906	992
Helicopter, Medium		SA365N		1,057	1,157
	Single-Engine Piston, Fixed Single-Engine Piston, Variable Multi-Engine Piston Helicopter, Small Single-Engine Turboprop (incl. T-6 Texan Turbojet Military GA = General Aviation ¹ Coffman Associates analysis. No user-define ² FAA Traffic Flow Management System Coun ³ The FAA approved the forecast contained in Update and Narrative Report. (See Appendi	CL600 CNA208 GA Local Total Operations Total Operations d aircraft or profiles requiring FAA apprr is (TFMSC), Camarillo Airport, Calendar Y Chapter 2 – Forecasts, which was prepa	Year 2022	-	

⁴ Coffman Associates analysis.



Noise Impacts





The Ventura County Department of Airports recognizes that some community members are disturbed by noise at levels below the FAA guidelines for noise exposure. Additional efforts to evaluate potential options to reduce the effects of noise exposure will be considered as part of the noise abatement and land use alternatives sections of the airport's Part 150 Noise Compatibility Program.







14 CFR Part 150 Noise Compatibility Guidelines

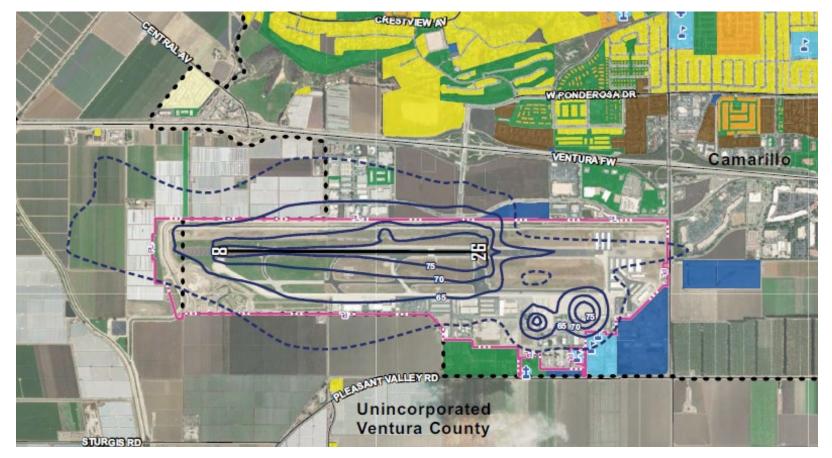
		· · ·	Day-Night	Average Sc	ound Level	(DNL) in [Decibels	
	LAND USE	Below 65	65-70	70-75	75-80	80-85	Over 85	
Resid	ential							
合	Residential, other than mobile homes and transient lodgings	Y	N ¹	N ¹	N	N	N	
	Mobile home parks	Y	N	N	N	N	N	
	Transient lodgings	Y	N ¹	N^1	N^1	Ν	Ν	
Public Use								
	Schools	Y	N ¹	N^1	N	N	N	
H	Hospitals and nursing homes	Y	25	30	N	N	N	
	Churches, auditoriums, and concert halls	Y	25	30	N	N	N	
Î	Government services	Y	Y	25	30	N	N	
	Transportation	Y	Y	Y2	Y ³	Y4	Y4	
Ρ	Parking		Y	Y2	Y ³	Y^4	Ν	
Com	nercial Use							
ü îů	Offices, business and professional	Y	Y	25	30	N	Ν	
X	Wholesale and retail-building materials, hardware and farm equipment	Y	Y	Y ²	Y ³	Y4	N	
	Retail trade-general	Y	Y	25	30	N	N	
∂ ₽∂	Utilities	Y	Y	Y2	Y ³	Y4	N	
	Communication	Y	Y	25	30	N	N	

		Yearly Day-Night Average Sound Level (DNL) in Decibels Below Over						
	LAND USE		65-70	70-75	75-80	80-85	Over 85	
Manu	facturing and Production							
Ĩ	Manufacturing, general	Y	Y	Y ²	Y ³	Y4	Ν	
6	Photographic and optical	Y	Y	25	30	N	Ν	
5.	Agriculture (except livestock) and forestry	Y	Y ⁶	Y7	Y ⁸	Y ⁸	Y ⁸	
	Livestock farming and breeding	Y	Y ⁶	Y7	N	N	N	
\.	Mining and fishing, resource production and extraction		Y	Y	Y	Y	Y	
	ational							
•••	Outdoor sports arenas and spectator sports	Y	Y ⁵	Y ⁵	N	N	N	
.	Outdoor music shells, amphitheaters	Y	N	N	N	N	N	
1	Nature exhibits and zoos	Y	Y	N	N	N	N	
	Amusements, parks, resorts, and camps	Y	Y	Y	N	N	N	
mater	Golf courses, riding stables, and water recreation	Y	Y	25	30	N	Ν	

The designations contained in this table do not constitute a federal determination that any use of land covered by the program is acceptable under federal, state, or local law. The responsibility for determining the acceptable and permissible land uses and the relationship between specific properties and specific noise contours rests with the local authorities. FAA determinations under Part 150 are not intended to substitute federally-determined land uses for those determined to be appropriate by local authorities in response to locally-determined needs and values in achieving noise compatible land uses.

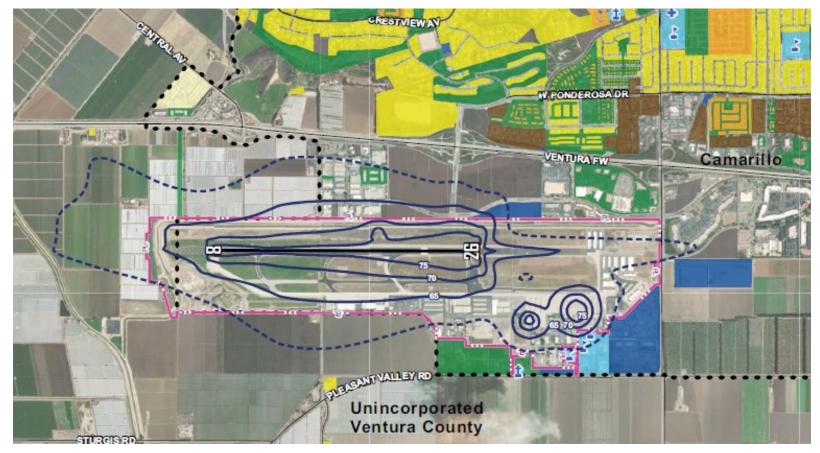


2022 Noise Contours



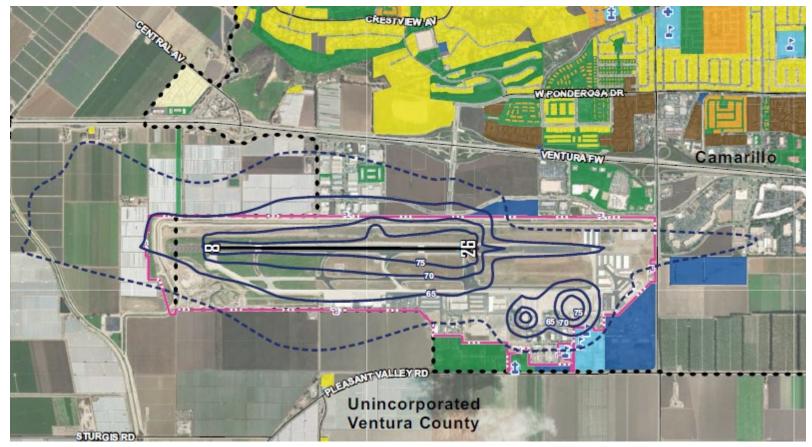


2027 Noise Contours





2042 Noise Contours





Land Use

TABLE 4B Land Uses Exposed to 2027 Aircraft Noise Above 65 CNEL – Camarillo Airport									
	Area (Acres)								
	65-70 CNEL	70-75 CNEL	75+ CNEL						
Compatible Land Uses									
Airport Property	175.38	97.61	62.95						
Agricultural	10.24	0	0						
Commercial, Industrial, Transportation, and Utilities	9.65	0	0						
Right of Way	8.43	0	0						
Undeveloped ¹	11.24	0	0						
Noise-Sensitive Land Uses									
Noise-Sensitive	0.60	0	0						
Single-Family Residential	0	0	0						
Multi-Family Residential	0	0	0						
Public Buildings	0	0	0						
Public Institutions	1.53	0	0						
Historic Properties	0	0	0						
Total	217.07	97.61	62.95						
¹ Undeveloped land consists of portions of multiple parcels.									
Source: Coffman Associates analysis									



Noise Measurement Program





Noise Measurement Program

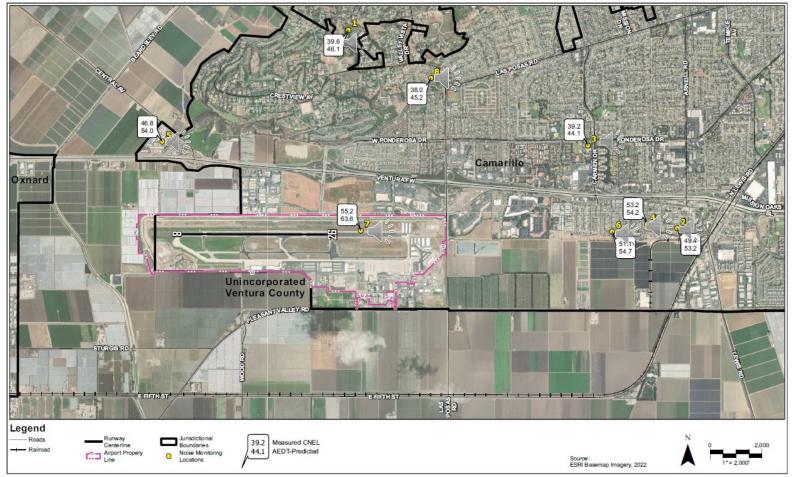
Successful results include the following:

- Noise monitoring was conducted in areas of concern in May, June, July, and August with cooperation from residents.
- Valid data gathered included aircraft events, which were verified through listening to digital recordings. The associated noise levels were used to calculate CNEL values for comparison to the AEDT outputs.
- The CNEL values from the aircraft event data correlate with the modeled values at all locations.
- Determined that no modeling adjustments were needed.

The noise measurement program results were beneficial as a tool for comparison to the AEDT model and the results indicate that the model inputs are accurate for the purposes of this study.



Noise Measurement Program



Camarillo Airport 14 CFR Part 150 Noise Compatibility Planning Study Update







Noise Measurement Program

TABLE F3 Noise Measurement Single Event Data Summary Camarillo Airport									
			SOUND EXPOSURE LEVEL EVENT SUMMARY						
Site/Day	Lmax	Max	Below	60-	70-	80-	90-	100+	Aircraft
Siter Day	Lmax	Duration (sec)	60 dB	70 dB	80 dB	90 dB	100 dB	dB	Events
Site 1 – Resi	dence on A	vocado Place, Spanis	h Hills neig	hborhood,	Camarillo				
Day 1	71.4	247.3	131	132	22	0	0	0	148
Day 2	81.0 ¹	377.7	113	120	28	2	0	0	98
Day 3	68.1	158.7	0	91	37	1	0	0	22
Day 4	69.1	156.9	0	86	5.8	2	0	0	/12

TABLE F3 | Noise Measurement Single Event Data Summary Camarillo Airport

			SOUND EXPOSURE LEVEL EVENT SUN					MARY	
Site / Day		Max	Below	60-	70-	80-	90-	100+	Aircraft
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Site 1 – Resid	dence on A	vocado Place, Spanis	h Hills neig	hborhood,	Camarillo				
Day 1	71.4	247.3	131	132	22	0	0	0	148
Day 2	81.0 ¹	377.7	113	120	28	2	0	0	98
Day 3	68.1	158.7	0	91	37	1	0	0	22
Day 4	69.1	156.9	0	86	58	3	0	0	43
Day 4 69.1 100.9 0 86 58 3 0 0 43 Site 6 - Residence near G2 eive Circle and Kenneth Street, Old Town, Camarillo									



Where Do We Go From Here?

- Finalize and submit Noise Exposure Maps to FAA for Acceptance
- Begin work on the Noise Compatibility Program
 - Noise abatement alternatives
 - Land use alternatives

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Questions or Comments *Please respond by October 15*





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