# FAA Initiative to Address Noise Concerns of Santa Cruz/Santa Clara/San Mateo/San Francisco Counties

Additional Analysis

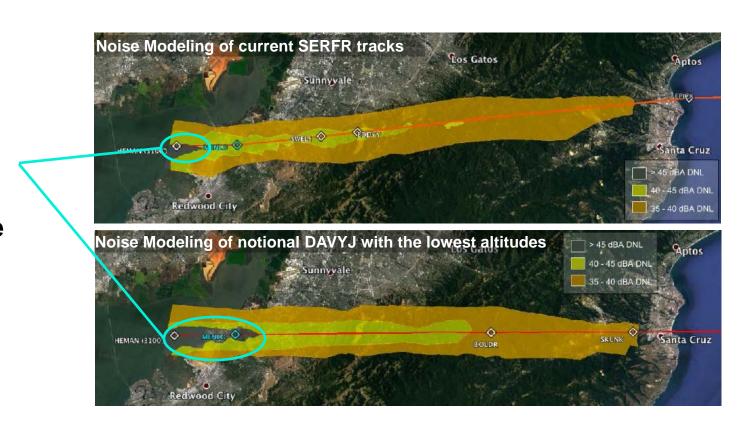


## Clarification: Comparison of SERFR and DAVYJ and people exposed to >45 dB near MENLO for DAVYJ



### Public Submission: Noise Modeling around MENLO

Why did the area of > 45 increase with the modelling of the lowest altitudes of the notional DAVYJ?



\*www.Davyjfacts.org's version of FAA's Aug 18th 2016 presentation \*



## Why the notional DAVYJ showed a larger 45 dBA area

The modelled SERFR used the average altitude of the current SERFR tracks\*. This average altitude includes the SERFR flights which remain on the procedure and those which are vectored off.



The modelled notional DAVYJ showed the lowest altitudes that the DAVYJ could achieve, assuming that <u>all</u> tracks would be at 4,000 feet MSL at MENLO, as published on the current SERFR.



\*Based upon 60 random days between June 2015 and May 2016

## **Additional Noise Analysis**

### Current conditions (July 2016)

- Comparison of SERFR and notional DAVYJ with MENLO at 4,000 ft
   MSL and crossing the Monterey Bay shoreline at 12,500 ft MSL
- Comparison of SERFR and notional DAVYJ with MENLO at 5,000 ft MSL and crossing the Monterey Bay shoreline at 12,500 ft MSL

## Projected July 2019 conditions\*

- Comparison of SERFR and notional DAVYJ with MENLO at 4,000 ft MSL and crossing the Monterey Bay shoreline at 12,500 ft MSL
- Comparison of SERFR and notional DAVYJ with MENLO at 5,000 ft MSL and crossing the Monterey Bay shoreline at 12,500 ft MSL





## Differences between original and additional noise analysis

### For the original noise analysis:

- Used the 60 random days from June 2015 through May 2016
- The altitudes at EPICK, EDDYY, SWELLS and MENLO were all defined.

### For the additional noise analysis:

- Used July 2016 data.
- The altitudes at EPICK and MENLO were defined

## **Current conditions Noise Analysis Based on July 2016 SERFR traffic**



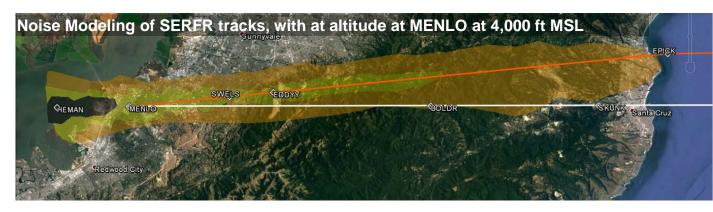
## Comparison of SERFR and notional DAVYJ MENLO at 4,000 ft MSL; Crosses Monterey Bay shoreline at 12,500 ft MSL

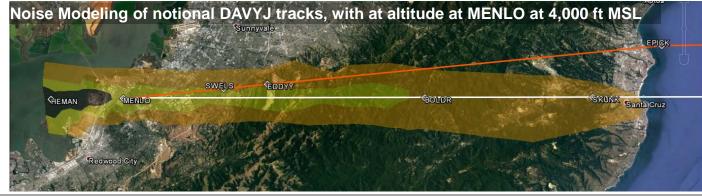
Track data: Model

based on

July 2016 SERFR

tracks





- **≥** 45 dBA
  - 40 44 dBA
  - 35 39 dBA

- SERFR ground track
  - notional DAVYJ ground track



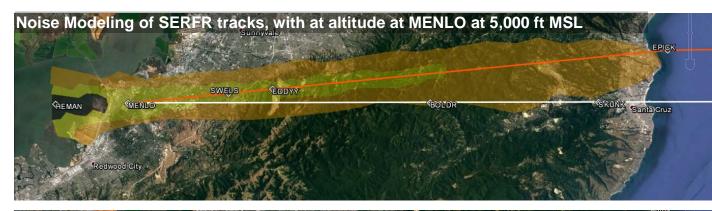
## Comparison of SERFR and notional DAVYJ MENLO at 5,000 ft MSL; Crosses Monterey Bay shoreline at 12,500 ft MSL

Track data: Model

based on

July 2016 SERFR

tracks





- **≥** 45 dBA
  - 40 44 dBA
  - 35 39 dBA

- SERFR ground track
- notional DAVYJ ground track



## Projected July 2019 Noise Analysis Based on SFO TAF data

#### APO TERMINAL AREA FORECAST DETAIL REPORT Forecast Issued January 2016

SFO

Fiscal Year	Air Carrier	nplanemen	ts		T . 7	_								
			Enplanements			Itinerant Operations Local Operations								
	Carrier	Commuter	Total	Air Carrier	Air Taxi & Commuter	GA	Military	Total	Civil	Military	Total	Total Ops	Total Tracon Ops	Based Aircraft
	N:AWP		A LOCII											
			AIRPORT											
	4,599,154	. ,	14,691,779	, .		. ,	,	425,876				437,130		
	5,043,625		15,749,195					424,538				435,309		
	5,257,080		15,935,663					415,043				424,829		
	4,935,725		15,638,623					413,919				423,404		
1994 1	5,594,959		16,396,063				-	420,333				430,380		
	6,179,584		16,887,347					424,509			12,398	436,907	0	
	7,731,701		18,347,249					428,815				442,281		
	8,413,138		19,004,714				-	431,341		110	15,776	447,117	0	
	8,615,701	,	19,205,448	,	,	, , , ,	-,	435,008	0	0		435,008		
	8,618,549	, , , , , , , , , , , , , , , , , , , ,	19,224,974		,		,	435,312	,		-,-	436,659		
	9,023,989	,	19,647,516	,	,			436,431		3	-,	437,763		
	7,325,346	,	17,875,926	,	,	,	,	407,035		-		407,040		
	4,162,944	,	14,645,954		,	, , , , , , , ,	,	350,133		0		350,133		
	3,167,468	,	14,002,396					335,785		-		335,785		-
			15,389,467				-	352,617				352,617		
			15,939,832					350,283				350,508		
			16,191,977					357,744				357,957		
			16,914,820					371,269				371,291		16
			18,114,755					393,637				393,714		
2009 1	6,738,574	1,434,387	18,172,961	277,394				378,102	103	0	103	378,205	0	17
			19,041,523			,		386,064		0		386,064		
			19,867,483				,	398,372		-		398,372		
			21,163,441					422,725		-		422,725		
			21,459,669					417,218		0		417,218		
2014 2	0,356,407	2,214,876	22,571,283	332,564			-	431,870		0		431,870		10
			23,555,394			_		429,203				429,203	_	
_			24,254,763					423,035			_	423,035	_	
	, , ,	, ,	24,850,249	,		,	,	431,687		0		431,687	0	
			25,428,400 26,013,443					439,583 447,398		0		439,583	0	10

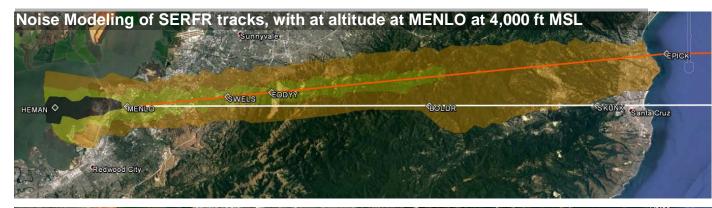
The Terminal Area Forecast for SFO shows that the total operations in 2019 is 6% higher than in 2016.

Based on this, we assumed that the operations on the SERFR in July 2019 would be 6% more than in July 2016.



## Projected comparison of SERFR and notional DAVYJ MENLO at 4,000 ft MSL; Crosses Monterey Bay shoreline at 12,500 ft MSL

Track data: Model based on projected July 2019 SERFR tracks





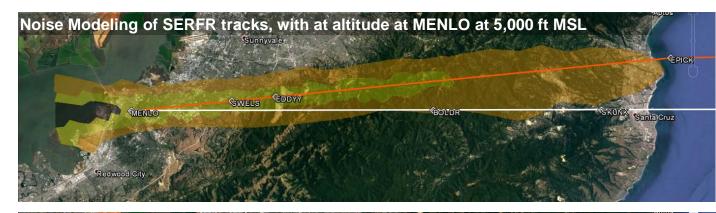
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## Comparison of SERFR and notional DAVYJ MENLO at 5,000 ft MSL; Crosses Monterey Bay shoreline at 12,500 ft MSL

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