#### Post NextGen Rollout Phases

# Increase in Aircraft Noise Over Woodside: Our Asks of the FAA

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# Executive Summary: Sharp Increase of Aircraft Noise Over Woodside

- + Major Increase of Aircraft Noise after NextGen rollout phases
  - + March 15, 2015 phase: BRIXX route added over Woodside
  - + Oct 15, 2015 phase: RNAV-caused shift and narrowing of flight corridors, e.g.
    - + West-Oceanic arrivals (including 10pm to 7am sleep disruption; Appendix 1)
- + Disproportionate amount of the noise burden of vectored SERFR
  - Over one third of all vectored SERFR
  - + Fly at lowest altitudes and use of noisy speed brakes
- Please do not shift more routes or vectored flights over Woodside
- Please reduce the number of vectored SERFR over Woodside
- Please raise altitude of all vectored flights, SERFR including, to 8,000+ ft for the same noise abatement reasons as the Eshoo agreement
  - NorCal TRACON Order NCT 7110.65k 5-7 a.(2).(f)
- Please route all nighttime West/North Oceanics over the Bay (BDEGA East Leg)

## SFO Roundtable Aviation Consultant Acknowledges Traffic Burden Over Woodside

In her Draft Response to Feasibility Document Adjustment 2.a.i: Adjust Traffic Activity in the Vicinity of Woodside VOR including Altitudes

## She Identifies Several Issues in the Feasibility Document:

- + FAA Initiative considered only one portion of the flights, the subset of West-Oceanics which utilizes Tailored Arrivals
- + While the majority of traffic is vectored SERFR and vectored Northern Arrivals

# **Focus**: Quantitative Analysis of Vectored SERFR Over Woodside

- + Using the <u>same Gate as SFO Noise Abatement Office</u> reports on nighttime western Oceanic arrivals
  - + fly below the 8,000 feet required minimum altitude
- + Gate: a virtual two-dimensional window in space, where we measure aircraft traffic crossing through the window
  - + See http://media.flysfo.com/napm\_osi\_20160619\_w3b.pdf 3<sup>rd</sup> page
- + Post October 15, 2015 NextGen Phase:
  - + Representative 1-Week Dec 4-10, 2015
  - + Data Source: FOIA FAA

#### Altitude of Vectored SERFR Over Woodside VOR 4,270' Above Ground Level (AGL) + Noisy Speed Brakes

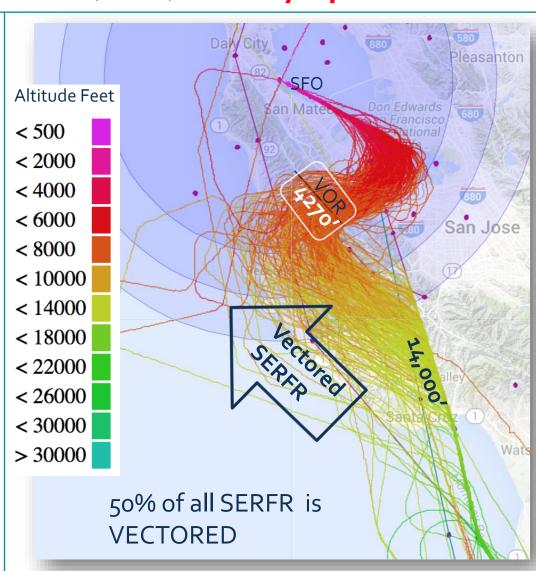
#### **Much Lower Altitude**

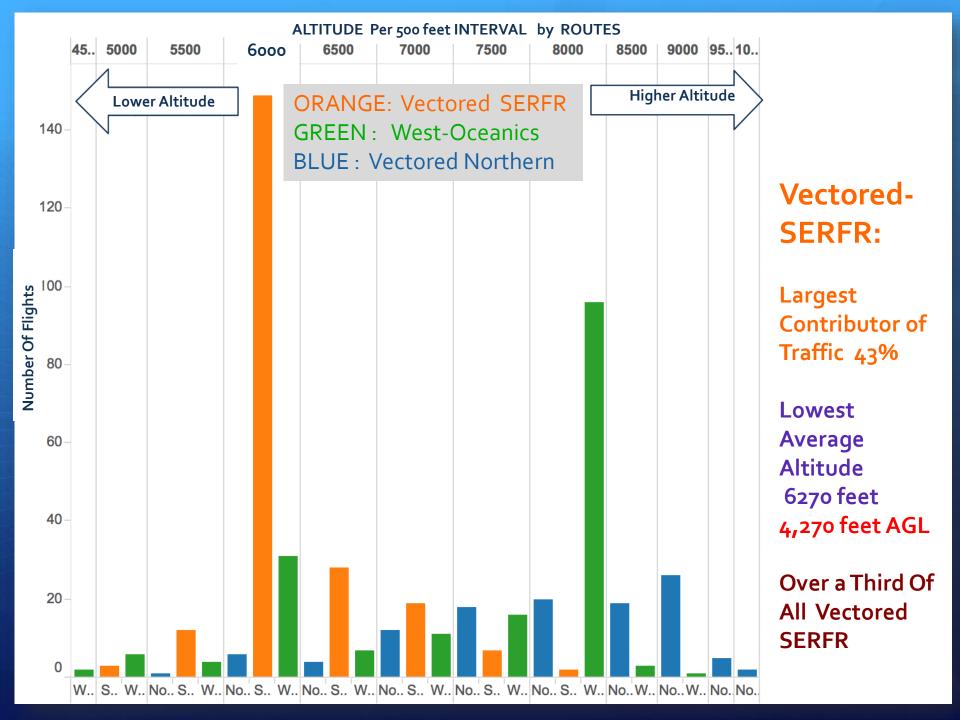
- Average 6270 feet
- VOR elevation ~2,000 feet
- ~4,270 feet AGL

## Than Other Areas of Vectored SERFR

- Elevation of o to 2000 feet
- 10,000 14,000 feet
- 8,000 14,000 feet AGL

DISPROPORTIONATE
AMOUNT OF NOISE
BURDEN FROM SERFR
DUE TO VERY LOWALTITUDE VECTORING





## ASKS of the FAA

- + Reduce Number of Vectored SERFR over Woodside and Spread More Equitably: example suggestions
  - + Greater Use of Holding Patterns of the Published SERFR Route over Water
  - + Vector Further West Over the Ocean with Earlier Turn To SFO
- + Raise Altitude to 8,000 feet or Above of all Vectored Flights
  - + For the Same Noise Abatement Reasons that Require Altitude of the West-Oceanic Flights to be at or above 8,000' (the Eshoo agreement)
    - + NorCal TRACON Order NCT 7110.65k 5-7 a.(2).(f) and 5-6 a.(1): "All oceanic jet arrivals inbound from the west shall cross [Woodside VOR] OSI at or above 8,000 feet MSL."
- + Do Not Use Speed Brakes in the Vicinity of Woodside VOR
  - + Move Speed Adjustments Over Water Instead of Over Land

### Conclusion

- Vectoring Large Percentage of SERFR Flights in the Vicinity of Woodside VOR
  - + Is Not Dispersal
  - + Is <u>Planned Concentration</u>
  - + Is Not Equitable
- Please do not use the Woodside VOR vicinity as a low-altitude makeshift holding pattern for any traffic
- + "The Town [of Woodside] is vehemently opposed to any modifications to routes that would have the effect of concentrating additional flights over Woodside. In particular, any modification of routes which add additional aircraft to a route that approaches the Woodside VORTAC would have substantial noise impact on Woodside." Town of Woodside Resolution No. 2016 7105
- + Please Read Appendix 1 on Sleep Disruption Caused by Nighttime West-Oceanic Flights and Suggested Approaches

## **THANKYOU**

- + Select Committee Members
- + FAA Western Region Director Glenn Martin and Staff
- + Congressional Representatives Anna Eshoo, Jackie Speier, and Sam Farr
- + All the Congressional Staff Members
- + And Others Who Have All Worked So Hard in Pushing Forward This Process

# Appendices

# Appendix 1: West Arrival Oceanic Problem: Sleep Disruption – Exacerbated with RNAV

#### Early Morning and Late Night Flights (Source: SFO Noise Abatement)

- + 5-7 flights from 4am-6:30am
- + Example

~4:15	~4:30	~4:40	~5:00	~5:50	~6:00	~6:30
UAL1746	UAL396	UAL1557	UAL1724	VRDo48	UAL1580	UAL1575

+ 3-7 flights from 10:30pm to past midnight

#### LOUD

- + Loud Airplanes: B73\*, Airbus 320
- + NorCal TRACON Order NCT 7110.65k SFO 5-7 a.(2).(f) "All oceanic jet arrivals inbound from the west shall cross OSI at or above 8,000 feet MSL."
- + VRDo46 /VRDo48, ANZ8, CPA872, ...frequently fly below 8,000', some as low as 4200' (~2,200 AGL)

# **Appendix 1:** West Arrival Oceanic Problem: **Sleep Disruption -- ASKS**

#### Route All Nighttime Flights Over the Bay, e.g., by

- Adjust Western Oceanic arrivals to join the Point Reyes approach at PYE or STINS and follow to SFO via the BDEGA Arrival East Leg (the "East Teardrop")
- Alternatively, consider a new route directly over the Golden Gate Bridge for Western Oceanic Arrivals to join the **BDEGATWO East Leg** arrival
- both suggested by Select Committee Member Gary Waldeck

#### Route Nigthtime Flights Over Non-Populated Areas, by e.g.,

- Early am and late pm little traffic => use best noise abatement paths, over non-populated area, disperse traffic (do not reuse the same path within and between each day)
  - E.g., Phleger Estate area, just north of Woodside VOR, is unpopulated
- Enforce 8,000' minimum altitude