

The Challenge

- ZZSIC
- Downtown and Airport are two of San Jose's economic priorities
- FAA protection of airspace invisible "surfaces" (via "FAR Part 77" and "TERPs")
- FAR Part 77 and TERPs do not consider specific airline emergency procedures known as one-engine inoperative (OEI)
- OEI study last conducted in 2007, establishing straight out and west corridor OEI protections

Airspace Surfaces

ZZSJC

- OEI Surfaces Runway 12L/12R
 - FAA AC 120-91 Obstacle Accountability Area
 - ICAO OEI Surface
 - West OEI Corridor
- Initial TERPS Surfaces Runways 12L/12R
 - TERPS Initial Climb Area Departure Surface
 - TERPS ILS Final and Missed Approach Surfaces
- Part 77 Approach, Transitional and Horizontal Surfaces

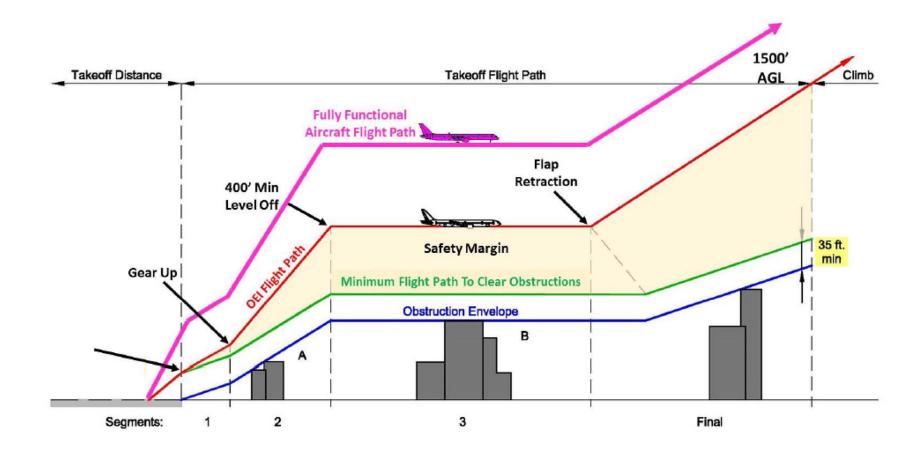
Study Evaluation Area





What is One Engine Inoperative





Airline Response to Obstacles



- Request another runway (wind, weather, air traffic permitting)
- Off-load passengers and/or cargo (weight penalty)
- Make a refueling stop
- Cancel current day's flight
- Change aircraft
- Change OEI procedure
- Cancel air service if payload loss affects financial viability

Project Steering Committee



Community Representatives

Teresa Alvarado – SPUR

Scott Knies – San Jose Downtown Association

Matt Mahood – Silicon Valley Organization

David Bini – Santa Clara & San Benito Counties Building & Construction Trades Council

Josue Garcia – Santa Clara County Residents for Responsible Development

Matt Quevedo – Silicon Valley Leadership Group

Julie Matsushima – Airport Commissioner and Downtown Resident

City Staff

John Aitken and Judy Ross – Airport Department

Kim Walesh and Blage Zelalich – City Manager's Office/Office of Economic Development

Rosalynn Hughey – Planning, Building and Code Enforcement

David Hai Tran & Christina Ramos – District 3 Office

Kelly Kline - Mayor's Office

Consultants

Landrum and Brown and Jones, Lang, and LaSalle

Collaborative Process



I. FACTS

Existing Conditions Assessment and Urban Airport Case Studies

- ✓ Gather
- ✓ Share
- ✓ Agree

II. "WHAT IF" SCENARIOS

Potential Increased

Height

- a) What if?
- b) What if?
- c) What if?
- d) Current
- Situation

III. TRADE-OFFS Impacts

(of each scenario)

Benefits/Costs

- Buildings
- Airlines
- City/Downtown
- Airport
- Regional Economy

Risks/Uncertainties

Evaluation Framework

IV. POTENTIAL SOLUTIONS

- ✓ Case Studies
- ✓ Brainstorm Solutions
 - Short-term
 - Long-term

V. INFORMED RECOMMENDATION

- ✓ Agreement, or
- ✓ Alternatives
- ✓ Council Recommendation and Action

STAKEHOLDER CONVERSATIONS

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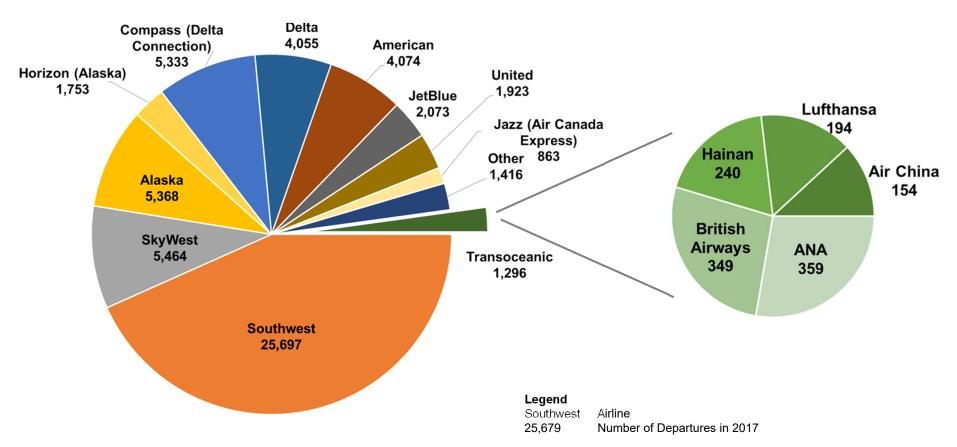


Progress to Date

Airline Market Share - Passenger



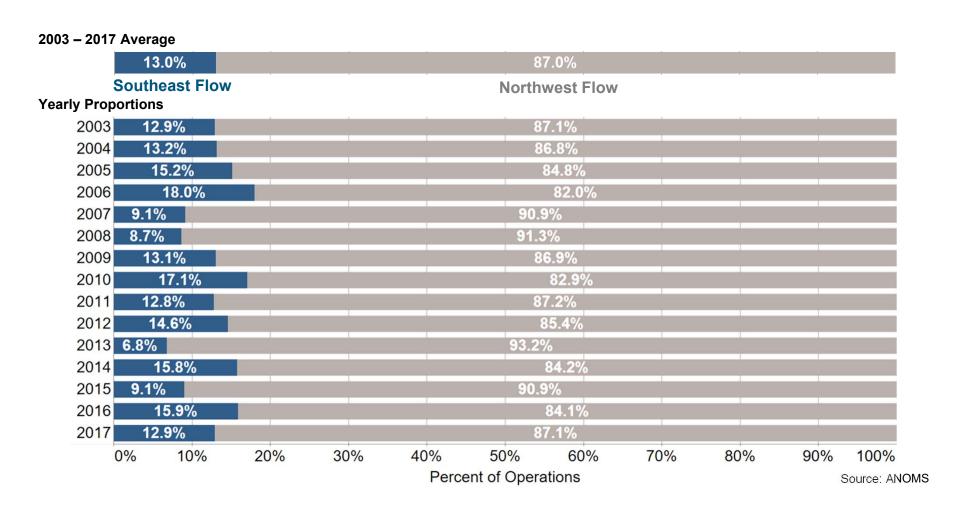
Passenger airline market share in 2017



Source: ANOMS

Yearly Operations by Flow







"What If" Scenario Assessment

Airspace Protection Scenarios



Four Airspace Scenarios

- Scenario 4: No OEI protection, TERPS only
- Scenario 7: Straight-out OEI protection only
- Scenario 10: Straight-out OEI with West OEI Corridor alternatives
- Scenario 9: No OEI, increased FAA height limits

Selected Aircrafts

- Boeing 737-800
- Airbus 321-NEO (Original was Airbus 320-200)
- Boeing 787-9
- Boeing 777-300ER

Current OEI Heights to TERPS Height



Scenario	Additional Height Downtown Core	Additional Height Diridon Station Area
occina i io		
Scenario 4 – No OEI, TERPs Only	5' - 35'	70' to 150'
Scenario 10 Options - Straight-out OEI projection with West Corridor Alternatives		
Option A	0'	15'-25'
Option B	0'	30'-55'
Option C	0'	45'-85'
Option D	0'	65'-115'
Scenario 7 - Straight-out OEI protection without the OEI west corridor	0'	70'-150'
Scenario 9 - No OEI protection with increase FAA height limits	35'-100'	80'-220'



AIRCRAFT PERFORMANCE CITY PAIR ASSESSMENT

Aircraft Performance Assumptions City Pair Assessment



AIRCRAFT FLEET EVALUATION

		Maximum Takeoff	
Aircraft	Engine	Weight (MTOW) (lbs.)	Seats
A320-200	CFM56-5B4	171,960	150
B737-800	CFM56-7B26	174,200	175
B787-9	GENX-1B74-7	560,000	290
B777-300ER	GE90-115BL	775,000	370

SEASONAL TEMPERATURES

Winter					
Aircraft Type	Temperature (°F)	Notes			
A320-200 & B737-800	63°F	Early morning and evening departures			
B787-9 & B777-300ER	68°F	Morning and afternoon departures			
Summer					
A320-200 & B737-800	81.3°F	Boeing 85% reliability temperature			
B787-9 & B777-300ER	81.3°F	Boeing 85% reliability temperature			

CITY PAIR ASSESSMENT

Origin	Destination	Distance (Statue Miles)				
Domestic						
SJC	JFK	2,569				
SJC	HNL	2,417				
International						
SJC	FRA	5,703				
SJC	PEK	5,942				

JFK: John F. Kennedy International Airport (New York)

HNL: Honolulu International Airport (Hawaii) FRA: Frankfurt International Airport (Germany)

PEK: Beijing International Airport (China)

Transcontinental Weight Penalty Assessment



New York - JFK		A320-200 (150 sea	eats/2,384 lbs. cargo) B737-800 (175 seats/1,6		ats/1,604 lbs. cargo)
Winter (63° F)		PAX Penalty	Cargo Penalty (lbs.)	PAX Penalty	Cargo Penalty (lbs.)
Scenario 1	Existing airspace protection	-	-	-	-
Scenario 4	TERPS Only	-	1,067	-	-
Scenario 7	Straight-Out ICAO OEI surface protection without West OEI Corridor	-	-	-	-
	Existing Conditions: 85' - 166' AGL	-	-	-	-
	Opt 10A: 100' - 195' AGL	-	-	-	-
Scenario 10	Opt 10B: 115' - 224' AGL	-	-	-	-
	Opt 10C: 129' - 240' AGL	-	-	-	-
	Opt 10D: 146' - 260' AGL	-	106	-	-
Scenario 9	TERPS only with increased TERPS departure climb gradients and approach procedure minima	8	2,384	-	583
	New York - JFK	A320-200 (150 sea	ats/2,384 lbs. cargo) Cargo Penalty (lbs.)	B737-800 (175 se	cargo Penalty (lbs.)
	Summer (81.3° F)	PAX Felialty	Cargo Fernancy (103.)	ran reliaity	Cargo Ferialty (IDS.)
Scenario 1	Existing airspace protection	-	-	-	-
Scenario 4 Scenario 7	TERPS Only Straight-Out ICAO OEI surface protection without West OEI Corridor	- -	- 2,384	- -	-
	Existing Conditions: 85' - 166' AGL	-	-	-	-
	Opt 10A: 100' - 195' AGL	-	-	-	-
Scenario 10				_	_
Scenario 10	Opt 10B: 115' - 224' AGL	-	-		
Scenario 10	Opt 10B: 115' - 224' AGL Opt 10C: 129' - 240' AGL	<u>-</u>	-	-	-
Scenario 10	·	- -	1,378		-

Hawaii Weight Penalty Assessment



	Hawaii - HNL	A321 NEO (189 s	seats/18,481 lbs.)	B737-800 (173	seats ¹ /No Cargo)
	Winter (63° F)		Cargo Penalty (lbs.)	PAX Penalty	Cargo Penalty (lbs.)
Scenario 1	Existing airspace protection	-	-	-	-
Scenario 4	TERPS Only	1	-	-	-
Scenario 7	Straight-Out ICAO OEI surface protection				
Scenario 7	without West OEI Corridor	,	-	-	-
	Existing Conditions: 85' - 166' AGL	-	-	-	-
	Opt 10A: 100' - 195' AGL	-	-	-	-
Scenario 10	Opt 10B: 115' - 224' AGL	1	-	-	-
	Opt 10C: 129' - 240' AGL	-	-	-	-
	Opt 10D: 146' - 260' AGL	1	-	-	-
	TERPS only with increased TERPS				
Scenario 9	departure climb gradients and approach	-	2,537	3	-
	procedure minima				
	Hawaii - HNL	A321 NFO (189 s	seats/21,658 lbs.)	R737-800 (175 sea	its/1,599 lbs. cargo)
	Hawaii - Hive	7.022 1120 (200)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	D737 000 (173 3cd	103, 1,333 103. Cargo,
9	Summer (81.3° F)	PAX Penalty	Cargo Penalty (lbs.)	PAX Penalty	Cargo Penalty (lbs.)
Scenario 1		•		<u> </u>	T
	Summer (81.3° F)	•		<u> </u>	T
Scenario 1	Summer (81.3° F) Existing airspace protection	•	Cargo Penalty (lbs.)	<u> </u>	T
Scenario 1 Scenario 4	Existing airspace protection TERPS Only Straight-Out ICAO OEI surface protection	•	Cargo Penalty (lbs.)	<u> </u>	T
Scenario 1 Scenario 4	Existing airspace protection TERPS Only Straight-Out ICAO OEI surface protection without West OEI Corridor	PAX Penalty - - -	Cargo Penalty (lbs.)	<u> </u>	T
Scenario 1 Scenario 4	Existing airspace protection TERPS Only Straight-Out ICAO OEI surface protection without West OEI Corridor Existing Conditions: 85' - 166' AGL	PAX Penalty - - -	Cargo Penalty (lbs.)	<u> </u>	T
Scenario 1 Scenario 4 Scenario 7	Existing airspace protection TERPS Only Straight-Out ICAO OEI surface protection without West OEI Corridor Existing Conditions: 85' - 166' AGL Opt 10A: 100' - 195' AGL	PAX Penalty - - -	Cargo Penalty (lbs.)	<u> </u>	T
Scenario 1 Scenario 4 Scenario 7	Existing airspace protection TERPS Only Straight-Out ICAO OEI surface protection without West OEI Corridor Existing Conditions: 85' - 166' AGL Opt 10A: 100' - 195' AGL Opt 10B: 115' - 224' AGL	PAX Penalty - - -	Cargo Penalty (lbs.)	<u> </u>	T
Scenario 1 Scenario 4 Scenario 7	Existing airspace protection TERPS Only Straight-Out ICAO OEI surface protection without West OEI Corridor Existing Conditions: 85' - 166' AGL Opt 10A: 100' - 195' AGL Opt 10B: 115' - 224' AGL Opt 10C: 129' - 240' AGL	PAX Penalty - - -	Cargo Penalty (lbs.)	<u> </u>	T
Scenario 1 Scenario 4 Scenario 7	Existing airspace protection TERPS Only Straight-Out ICAO OEI surface protection without West OEI Corridor Existing Conditions: 85' - 166' AGL Opt 10A: 100' - 195' AGL Opt 10B: 115' - 224' AGL Opt 10C: 129' - 240' AGL Opt 10D: 146' - 260' AGL	PAX Penalty - - -	Cargo Penalty (lbs.)	<u> </u>	T

Note:

HNL is fuel capacity limited in Feb to 173 PAX and no cargo (i.e., not a takeoff weight limitation) for the B737-800.

Europe Weight Penalty Assessment

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Frankfurt - FRA		B787-9 (290 seats	s/26,198 lbs. cargo)	B777-300ER (370 se	ats/62,240 lbs. cargo)
	Winter (68° F)	PAX Penalty	Cargo Penalty (lbs.)	PAX Penalty	Cargo Penalty (lbs.)
Scenario 1	Existing airspace protection	-	-	-	-
Scenario 4	TERPS Only	-	21,580	-	4,400
Scenario 7	Straight-Out ICAO OEI surface protection without West OEI Corridor	-	15,338	-	-
	Existing Conditions: 85' - 166' AGL	-	10,000	-	-
	Opt 10A: 100' - 195' AGL	-	-	-	-
Scenario 10	Opt 10B: 115' - 224' AGL	-	9,349	-	-
	Opt 10C: 129' - 240' AGL	-	14,096	-	-
	Opt 10D: 146' - 260' AGL	-	19,282	-	2,027
Scenario 9	TERPS only with increased TERPS departure climb gradients and approach procedure minima	29	26,198	-	11,735
	Frankfurt - FRA Summer (81.3° F)	B787-9 (290 seats	cargo Penalty (lbs.)	B777-300ER (370 se	ats/62,240 lbs. cargo) Cargo Penalty (lbs.)
Scenario 1	Existing airspace protection		-	_	_
Scenario 4	TERPS Only	2	22,911	_	7,811
Scenario 7	Straight-Out ICAO OEI surface protection without West OEI Corridor	-	16,407	-	-
	Existing Conditions: 85' - 166' AGL	-	-	-	-
	Opt 10A: 100' - 195' AGL	-	4,217	-	-
Scenario 10	Opt 10B: 115' - 224' AGL	-	9,353	-	-
	Opt 10C: 129' - 240' AGL	-	14,270	-	-
	Opt 10D: 146' - 260' AGL	-	19,612	-	3,876
	TERPS only with increased TERPS				

Asia Weight Penalty Assessment

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Beijing - PEK		B787-9 (290 seats	/10,853 lbs. cargo)	B777-300ER (370 seats/56,089 lbs.	
	Winter (68° F)	PAX Penalty	Cargo Penalty (lbs.)	PAX Penalty	Cargo Penalty (lbs.)
Scenario 1	Existing airspace protection	-	-	-	-
Scenario 4	TERPS Only	51	10,853	-	19,278
Scenario 7	Straight-Out ICAO OEI surface protection without West OEI Corridor	25	10,853	-	11,801
	Existing Conditions: 85' - 166' AGL	1	-	-	=
	Opt 10A: 100' - 195' AGL	-	4,534	-	5,479
Scenario 10	Opt 10B: 115' - 224' AGL	-	9,408	-	6,673
	Opt 10C: 129' - 240' AGL	13	10,853	-	10,537
	Opt 10D: 146' - 260' AGL	34	10,853	-	16,929
Scenario 9	TERPS only with increased TERPS departure climb gradients and approach procedure minima	93	10,853	-	26,672
	Beijing - PEK Summer (81.3° F)	B787-9 (290 seats	s/9,542 lbs. cargo) Cargo Penalty (lbs.)	B777-300ER (370 se	cargo Penalty (lbs.)
Scenario 1	Existing airspace protection	-	_	_	_
Scenario 4	TERPS Only	56	9,542	_	20,597
Scenario 7	Straight-Out ICAO OEI surface protection without West OEI Corridor	30	9,542	-	13,268
	Existing Conditions: 85' - 166' AGL	-	-	-	-
	Opt 10A: 100' - 195' AGL	1	3,933	-	5,293
Scenario 10	Opt 10B: 115' - 224' AGL	-	8,725	-	10,223
	Opt 10C: 129' - 240' AGL	15	9,542	-	11,020
	0 -1 400 4461 2601 461	36	9,542	-	17,545
	Opt 10D: 146' - 260' AGL	30			

Airline Responses

∑_sic

The following airlines participated in the aircraft performance assessment for the various airspace scenarios presented.

Responded	No Response
AeroMexico	Air Canda/Jazz
Air China	California Pacific
Alaska	Frontier
American	Lufthansa
ANA	UPS
British Airways	
Delta	
FedEx	
Hainan Airways	
Hawaiian	
Southwest	
United	
Volaris	

Respondent Analysis Results (1 of 3)



ANA

- Evaluated B787-8 (max 169 PAX configuration)
- No PAX penalty impacts in Scenarios 1,4,7 and 10, however cargo impact.
- Scenario 9 results in PAX penalties between 30-37 PAX in Summer temperatures (92° F), including additional cargo penalties

Hainan Airways

 For B787-8/9, Scenario 4 obstacles results in significant reduction in cargo and PAX payload (50+ PAX for B787-9) due to loss of the West Corridor

Respondent Analysis Results (2 of 3)

- British Airways
 - Scenarios 4 and 7 have no impact at all to current operations
 - Scenario 9 results in greatest impact when operating on Runways 12L/12R
 - Scenario 10 has no impact on 12L when departing straight-out, however a payload and engine impact for 12R when making a right course correction
- Alaska, American, Aeromexico, Delta, and Southwest, Volaris
 - No penalties for operations below 92° F.
- United
 - Significant PAX and cargo penalties for B737-900ER operation in Scenarios 1, 4, 7 and 9
 - Minor PAX and cargo penalties in Scenario 4 for B737-800;
 moderate PAX and cargo penalties in Scenario 9 for B737-800

Respondent Analysis Results (3 of 3)



- Hawaiian (Aircraft A321 NEO)
 - HNL, OGG, or KOA has no passenger penalties, some cargo penalties.
 - LIH has minimal passenger penalties and some cargo penalties.
- Federal Express
 - Cargo Penalties in most scenarios; however, will cube out before weight out.

Weight Penalty Assessment Additional Domestic Markets

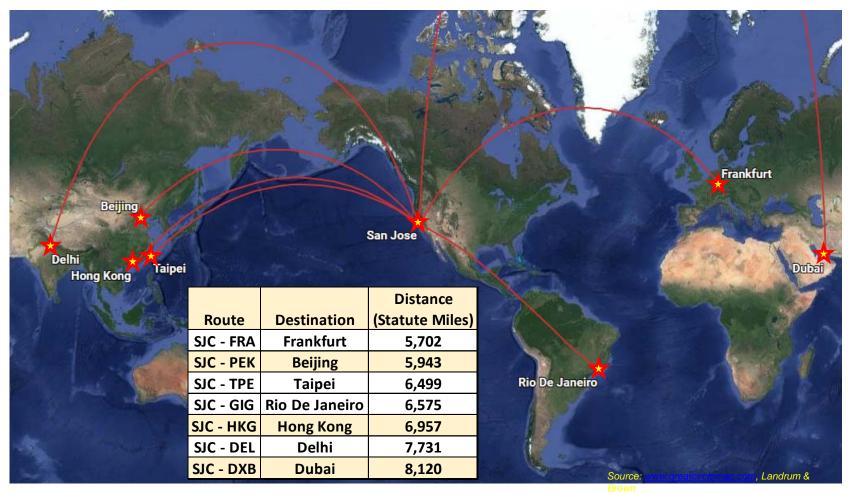


Anchorage - ANC		A320 (150 seat	s/1,379 lbs. cargo)	B737-800 (175 sea	ats/7,100 lbs. cargo)	
9	Summer (81.3° F)	PAX Penalty	Cargo Penalty (lbs.)	PAX Penalty Cargo Penalty (I		
Scenario 1	Existing airspace protection	-	-	-	-	
Scenario 4	TERPS Only	-	-	-	-	
Boston - BOS		A320 (150 se	A320 (150 seats/0 lbs. cargo)		B737-800 (175 seats/0 lbs. cargo)	
9	Summer (81.3° F)	PAX Penalty	Cargo Penalty (lbs.)	PAX Penalty	Cargo Penalty (lbs.	
Scenario 1	Existing airspace protection	7	-	1	-	
Scenario 4	TERPS Only	23		1	-	
	Miami - MIA	A320 (150 se	ats/0 lbs. cargo)	B737-800 (175 s	seats/0 lbs. cargo)	
9	Summer (81.3° F)	PAX Penalty	Cargo Penalty (lbs.)	PAX Penalty	Cargo Penalty (lbs.	
Scenario 1	Existing airspace protection	1	-	3	-	
Scenario 4	TERPS Only	17		3	-	

Note - 1 and 3 Pax penalties as being due to Max Structural Takeoff Weight limits (and not related to the obstacles or runway length.)

Weight Penalties Assessment for Additional International Markets





Aircraft Evaluated: A330-200, A350-900, B777-300, B787-9

Weight Penalty Assessment Additional International Markets



Rio de Janeiro - GIG	A330-200			A350-900		B777-300ER		B787-9	
Summer (81.3° F)	(284 seats/39,344 lbs cargo)			(325 seats/37,963 lbs cargo)		(370 seats/48,211 lbs cargo)		(290 seats/7,144 lbs cargo)	
6,575 miles	PAX Penalty	Cargo Penalty (lbs)	PAX Penalty	Cargo Penalty (lbs)	PAX Penalty	Cargo Penalty (lbs)	PAX Penalty	Cargo enalty (lbs)	
Existing Straight Out OEI*							51	X	
West OEI Corridor									
TERPS Only		20,072		23,528		18,975	60	7,144	
Taipei - TPE		A330-200		A350-900		B777-300ER		B787-9	
Summer (81.3° F)		eats/28,577 lbs cargo)		ats/27,582 lbs cargo)	(370 seats/35,5		(290 seats/		
6,499 miles	PAX Penalty	Cargo Penalty (lbs)	PAX Penalty	Cargo Penalty (lbs)	PAX Penalty	Cargo Penalty (lbs)	PAX Penaltr	Cargo Penalty (lbs)	
Existing Straight Out OEI*							89		
West OEI Corridor							12		
TERPS Only		1,976		23,195		18,742	96	•	
Hong Kong - HKG		A330-200		A350-900		B777-300ER		B787-9	
Summer (81.3° F)		eats/18,283 lbs cargo)		ats/17,182 lbs cargo)	(370 seats/20,7		(290 seats/		
6,957 miles	PAX Penalty	Cargo Penalty (lbs)	PAX Penalty	Carge Penalty (lbs)	PAX Penalty	Cargo Penalty (lbs)	PAX Penal v	argo Penalty (lbs)	
Existing Straight Out OEI*			15	X			128	K	
West OEI Corridor							51		
TERPS Only	5	18,283	23	17,182		17,980	134		
Delhi - DEL		A330-200		A350-900 (325 seats/3,132 lbs cargo)		B777-300ER (370 seats/106 lbs cargo)		B787-9	
Summer (81.3° F)		eats/5,014 lbs cargo)						O lbs cargo)	
7,731 miles	PAX Penalty	argo (enalty (lbs)	PAX Penalty	Cargo Penalty (lbs)	PAX Penalty	Cargo Penalty (lbs)	PAX Penalt	Cargo Penalty (lbs)	
Existing Straight Out OEI*	48		69	X	62		178		
West OEI Corridor							103		
TERPS Only	55	5,014	77	3,132	72	106	184		
Dubai - DXB	A330-200			A350-900		B777-300ER		B787-9	
Summer (81.3° F)	(284 seats/3,537 lbs cargo)			eats/2,688 lbs cargo)	(370 seats/1,828 lbs cargo)		(290 seats/0 lbs cargo)		
8,120 miles	PAX Penalty	Cargo Ponalty (lbs)	PAX Penalty	Cargo Penalty (lbs)	PAX Penalty	Cargo Penalty (lbs)	PAX Penalty	Penalty (lbs)	
Existing Straight Out OEI*	57	X	71	X	62		184	K	
West OEI Corridor							107		
TERPS Only	65	3,537	79	2,688	72	1,828	191		

Economic Impact Assessment

Density Increase in the Downtown Core and Diridon Station Area



Downtown Core

- Significant density is currently available for the Downtown Core study area and will not have an aggregate impact for a long period of time.
- Although discrete development sites may still experience small gains in the Downtown Core.

Diridon Station Area

Scenario	Net New Square Feet
4: No OEI	8,600,000
7: Straight-Out OEI	8,500,000
9: No OEI, incr. height limits	10,000,000
10A: Straight-Out OEI w/ West OEI Alts.	1,100,000
10B: Straight-Out OEI w/ West OEI Alts.	3,100,000
10C: Straight-Out OEI w/ West OEI Alts.	4,900,000
10D: Straight-Out OEI w/ West OEI Alts.	6,800,000

Summary Of Year 2024 Annual Direct Impacts

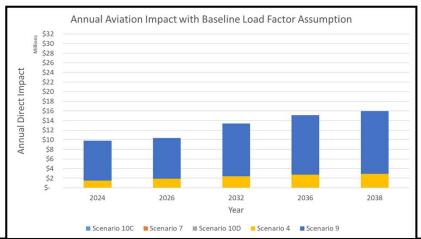


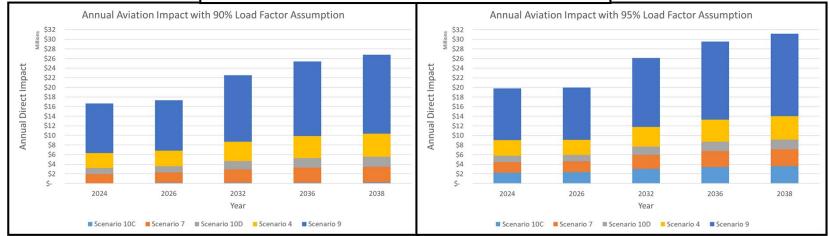
HISTORICAL LOAD FACTORS

Summary of Loses		Airline Revenue	PFC Revenue	Terminal Concession Spending (Airport Share)	Terminal Concession Spending (Concession Share)	Indirect Other Airline Impacts
Scenario 1	Existing airspace protection	\$0	\$0	\$0	\$0	\$0
Scenario 4	TERPS Only	\$802,000	\$10,000	\$5,000	\$31,000	\$669,000
	Straight-Out ICAO OEI surface				\$0	
Scenario 7	protection without West OEI	\$0	\$0	\$0		\$0
	Corridor					
	Existing Conditions: 85' - 166' AGL	\$0	\$0	\$0	\$0	\$0
	Opt 10A: 100' - 195' AGL	\$0	\$0	\$0	\$0	\$0
Scenario 10	Opt 10B: 115' - 224' AGL	\$0	\$0	\$0	\$0	\$0
	Opt 10C: 129' - 240' AGL	\$0	\$0	\$0	\$0	\$0
	Opt 10D: 146' - 260' AGL	\$0	\$0	\$0	\$0	\$0
	TERPS only with increased TERPS					
	departure climb gradients and	\$5,566,000	\$57,000	\$32,000	\$191,000	\$3,966,000
	approach procedure minima					

Summary of 20-year Direct Impacts with Load Factor Sensitivity Test







Induced Economic Impact Assessmen



Induced Economic Impact Assessment Summary

	Aviatio	n Impact	Real Estate Impact					
Airspace Scenario	Employment	GDP Gain/Loss	Employment	GDP Gain/Loss				
10A	-	-	1,000	\$184,000,000				
10B	-	-	2,400	\$438,000,000				
10C	-	-	4,300	\$700,000,000				
4, 7, 10D	-27	-\$2,000,000	4,900	\$747,000,000				

Estimated City of San Jose Portion of Sales Tax

Airspace	2024		2026		2032		2036		2038	
Scenario	Airline/Airport	Real Estate	Airline/Airport	Real Estate	Airline/Airport	Real Estate	Airline/Airport	Real Estate	Airline/Airport	Real Estate
4	\$2,100	-	\$2,600	-	\$3,200	\$110,000	\$3,500	\$206,800	\$3,700	\$253,400
7	-	-	-	-	-	\$110,000	-	\$206,800	-	\$253,400
9	\$13,700	-	\$14,200	-	\$17,800	\$110,000	\$19,600	\$206,800	\$20,500	\$253,400
10A	-	-	-	-	-	\$110,000	-	\$57,700	-	\$57,700
10B	-	-	-	-	-	\$110,000	-	\$141,100	-	\$137,400
10C	-	-	-	-	-	\$110,000	-	\$206,800	-	\$226,800
10D	-	-	-	-	-	\$110,000	-	\$206,800	-	\$253,400

Approval of Propose Recommendation to City Council



Recommend to the City Council approval of:

- 1. Acceptance of a completed Downtown Airspace and Development Capacity Study, with selection of Scenario 4, which would affirm the City's development policy to use Federal Aviation Administration (FAA) Terminal Instrument Procedures (TERPS) surfaces to determine maximum building heights in the Downtown Core and Diridon Station.
- 2. Direction to the Administration and City Attorney's Office to explore, and report back to Council on, the feasibility of establishing a "Community Air Service Fund" to financially mitigate any adverse air service impacts that might arise from implementation of Scenario 4 of the Downtown Airspace and Development Capacity Study.
- 3. Direction to the Administration to consider potential refinements to the development review process for projects subject to a FAA TERPS airspace determination including:
 - a. Requiring applicants to have the technical data on the FAA submittal forms be prepared by a licensed civil engineer and that the forms identify the location and elevation of the highest points of the proposed building, including any mechanical rooms, screens, antennas, or other accessory structure.
 - b. Requiring applicants to also identify the location and elevation of the highest points of the proposed building and accessory extensions thereof, on their City development permit application plans, including any mechanical rooms, screens, antennas, or other accessory structure.
 - c. Require that a construction survey prepared by a licensed civil engineer be submitted by applicants to the FAA upon completion of the high-point of the structure and accessory extensions thereof, prior to City issuance of an occupancy certification.
 - d. Requiring a development permit amendment application for any proposed modification or addition to an existing or approved building that would create a new and/or relocated roof-top high point.
 - e. Develop a construction crane policy in the Downtown Core and Diridon Station area to minimize impacts on airline service during construction.
- 4. Direction to the Administration to initiate amendments, as determined applicable, to the General Plan and other key policy documents to incorporate the above recommendations and conduct outreach with the downtown development community to provide information and guidance on development height restrictions.