Letter of Agreement

Effective: March 20, 2025

- 1. **PURPOSE.** To establish procedures for the coordination of air traffic and radar handoffs between the Los Angeles ARTCC, Oakland ARTCC, Bakersfield TRACON, Fresno TRACON, and Santa Barbara TRACON. This letter also delegates jurisdiction of portions of the Los Angeles Center control area to Oakland Center and portions of the Oakland Center control area to Los Angeles Center.
- 2. **SCOPE.** The procedures contained herein are for use between Oakland Center and Los Angeles Center for the controlling of air traffic and the handling of aircraft transitioning between Centers.
- 3. CANCELLATION. All previous agreements are canceled.

DEFINITIONS.	4.	DEFINITIONS.
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a. Facility Areas

GROUP NAME	AIRPORTS		
	ZLA Areas		
Empire Area	ONT, CNO, POC, AJO, EMT, RAL, SBD		
Coast Area	SNA, LGB, TOA, FUL		
Burbank Area	BUR, VNY		
San Diego Area	SAN, CRQ, NFG, OKB		
LA Basin	All airports in Southern California		
Las Vegas Area (L30)	LAS, VGT, HND, BVU, LSV		
	ZOA Areas		
Oakland Area	OAK, HWD		
Sacramento Area	SMF, SAC, MHR, MCC, O88		
San Jose Area	SJC, MRY, SNS, NUQ		
Bay Area	SFO, OAK, SJC, NUQ, CCR, HWD, LVK, APC, RHV, SQL		

5. PROCEDURES.

- a. General.
 - i. Preferred routes and altitude restrictions for turbojet aircraft are described in Attachments 1 and 2. Tower Enroute Control (TEC) routes for operations between the FAT and BFL TRACONs are included in attachment 3.
 - 1. Each Center prefers that, where applicable, flight plans contain a STAR appropriate for aircraft type and navigation equipment.
 - ii. The minimum radar separation for aircraft being transferred between facilities is 5 nm, constant or increasing.

- Whenever miles-in-trail restrictions are imposed for identified facility airports, sequencing must be ensured regardless of altitudes. During these times, BUR/VNY/SMO, SNA/LGB, and LAX/HHR must each be treated as one airport.
- iii. Inappropriate altitude for direction of flight (IAFDOF), for reasons of traffic, may be assigned with prior approval from the receiving facility.
 - 1. Aircraft handed off from ZOA Area South to ZLA Sector 26, above FL240 and east of NLC must be assigned odd cardinal altitudes, regardless of compass heading.
 - 2. Aircraft handed off from ZLA Sector 26 to ZOA Area South, above FL240 and east of NLC, or above FL200 and between NLC and the PRB shelf, must be assigned even cardinal altitudes, regardless of compass heading.
- iv. Each Center must advise the other of the configuration of the adjacent sectors. Coordination may be accomplished either verbally or via PM.
- v. Each Center must keep the other advised, in a timely manner, of any changes, including sector saturation, weather, or equipment malfunction, which may limit or adversely affect air traffic control and/or facility operation.
- vi. Each facility must advise the other of the release of military operating area (MOA), warning area and restricted airspace immediately adjacent to the common boundaries.
- vii. Aircraft descending to meet altitude restrictions contained in this LOA must enter the designated sector at or below the restriction altitude unless otherwise specified.
- viii. All control instructions issued for turns, speeds, and altitude changes covered in this LOA must be reflected in the data block or flight plan.
- ix. Transfer of Control
 - 1. Control for speed adjustments, changes to the data block, and beacon codes is released upon the completion of a handoff and a frequency change.
 - 2. For all items contained in the following table, control is released on contact:

FROM	ТО	QUALIFIER	CONTROL
		From ZLA	
ZLA 27	ZOA Area South	North of EHF	Turns up to 25°
	ZOA Area South		Turns up to 40°
ZLA 25/28	ZOA Pac South	Within 15 nm of boundary	Turns up to 40° for all aircraft; descent to FL240 for non-turbojet and all San Jose Area arrivals
ZLA 16	ZOA Area East	North of BTY	Turns
SBA	ZOA		Turns up to 50°, climb (descent for PRB arrivals)
BFL	ZOA		Turns up to 45°
BFL	FAT	Within 10 nm of boundary	All

FROM	ТО	QUALIFIER	CONTROL
		From ZOA	
ZOA Area South/Pac South	ZLA 25	Within 15 nm of boundary	Turns up to 40° for all aircraft; descent to FL240 for non-turbojet and all SBA arrivals
ZOA Area South	ZLA 27	South of FAT	Turns up to 25°
ZOA Area East	ZLA 16	Within 15 nm of boundary	Turns
ZOA Alea Easi	ZLA 10	Within 15 nm of boundary, Landing L30	Descent
ZOA	SBA		Turns up to 50°
ZOA	BFL		Turns up to 45°
FAT	BFL	Within 10 nm of boundary	All

b. Domestic

- i. Operations at airports near ZOA/ZLA boundary
 - 1. The following table contains control instructions to be issued by the involved facilities when handling traffic departing/arriving airports near the boundary:

FROM	ТО	QUALIFIER	INSTRUCTIONS/RESTRICTIONS			
	From ZLA					
SBA		SBP Departures	Climbing to 8,000 or lower filed			
ZLA 25/26		PRB Arrivals	Descending to 8,000 Direct PRB or any PRB IAF ZOA has control on contact			
SBA			Descending to 6,000 Direct PRB			
		FAT Arrivals	Via ALTTA STAR, at 12,000			
BFL	ZOA Area South	BFL TRACON Departures	Climbing to 12,000 or lower filed ZOA has control within 10 nm of the boundary			
		FAT Arrivals	Via ALTTA STAR, at 14,000			
ZLA 27		NLC Arrivals	16,000 or lowest available Via CETTA			
ZLA 26		NEC Anivais	Descending to 16,000 Routed AVE CARRL or AVE WADDE			
		From ZOA				
	SBA	SBP Arrivals	Descending to 7,000 Direct SBP, MQO, CREPE, or CADAB			
ZOA Area South		PRB Departures	APREQ departures entering SBA			
	BFL	BFL TRACON Arrivals	Descending to 13,000 BFL has control for descent within 5 nm of the boundary			

- ii. SBA TRACON:
 - 1. When the Hunter SUA is active, aircraft entering ZOA airspace from SBA TRACON airspace must be routed as follows:
 - a. West of the Hunter SUA
 - i. Between 7,000 and 10,000 feet: V27.BSR direct next fix
 - ii. Above 10,000 feet: MQO..CLMNS..LIBBO direct next fix
 - b. East of the Hunter SUA: PRB direct next fix
- iii. BFL TRACON:
 - 1. ZOA must handoff or point out aircraft landing BFL to ZLA
 - 2. The Pixey Area (Attachment 5) is continuously delegated to ZOA (from 11,000 to 13,000) and FAT (from surface to 10,000)
- iv. ZOA will ensure DME-equipped turbojet aircraft departing MRY, SNS, OAR, and WVI landing LGB and SNA are routed via the existing Offshore Route, joining that route no further south than MCKEY/YYUNG/TILLT unless coordinated with ZLA.

c. Oceanic

- i. Coordination
 - 1. Coordination shall occur for every aircraft transiting the common boundaries of the facilities that are parties to this LOA at least 15 minutes prior to the transfer of control point (TCP).
 - a. If an aircraft is departing an airport that is less than 15 minutes away from the TCP, the coordination shall be completed as soon as practicable, preferably prior to the aircraft becoming airborne.
 - 2. Coordination shall consist of the aircraft's callsign, TCP fix, and assigned altitude.

EXAMPLE-

$ZAK_FSS \square LAX_CTR: DAL436, GALIP, FL330.$

- 3. Aircraft shall be instructed to switch to the receiving controller's frequency no later than 5 minutes prior to the TCP.
 - a. Aircraft entering oceanic airspace shall be instructed to squawk 2000 and to contact the appropriate HF radio operator.
- ii. Altitude Assignment
 - 1. Aircraft operation on a unidirectional route (R576 and R577) may be assigned any cardinal altitude. In the presence of convective weather, altitude assignment must be appropriate for direction of flight.

6. ATTACHMENTS.

- a. Attachment 1. Preferred Routes and Altitudes from Oakland Center to Los Angeles Center for Turbojets and Turboprops
- b. Attachment 2. Preferred Routes and Altitudes from Los Angeles Center to Oakland Center for Turbojets and Turboprops
- c. Attachment 3. Tower Enroute Control Routes Between FAT and BFL TRACONs
- d. Attachment 4. Paso Robles Area
- e. Attachment 5. Lemoore Area
- f. Attachment 6. Pixey Area
- g. Attachment 7. ZLA Oceanic Shelf
- h. Attachment 8. List of Changes

ATTACHMENT 1. PREFERRED ROUTES AND ALTITUDES FROM OAKLAND CENTER TO LOS ANGELES CENTER FOR TURBOJETS AND TURBOPROPS (as specified)

Preferred routes and altitudes for aircraft originating in or over-flying Oakland Center and entering Los Angeles Center.

DEPARTURE	DESTINATION	ROUTING	ALTITUDE/ NOTES	
	LOS ANGELES AREA			
FAT		PONDDTAFTOMUPTT		
MRY	LAX		AOB FL230	
		MQO (Non-RNAV) BURGL		
		REBRG		
		DOUIT		
ALL (Jets)	LAX	DERBB (Non-RNAV) BURGL.BAYST STAR	Only for known	
		TILLT.DIRBY STAR	Only for known cargo aircraft on	
		MCKEY.LEENA STAR (Non-RNAV)	or west of J501	
		BURGL		
		HONZK MMTLY.		
		RDHOT		
ALL (Jets)	SMO	REBRG	AOB FL310	
		AVE (Non-RNAV)		
		FLW (Non-RNAV)		
		REBRG.J7.DERBB (Non-RNAV)		
All Other Props	LAX/SMO/HHR	PAIDD (LAX/SMO only)	AOB FL230	
East of J1		LHS	7100712200	
All Other Props		AVE (LAX/HHR only)		
West of J1	LAX/SMO/HHR	FLW	AOB FL230	
		COAST AREA		
		RDHOT		
		MMTLY		
		ELLBC		
ALL (Jets)	LGB/SNA	REBRG		
		AVE (Non-RNAV) FLW (Non-RNAV)		
		MCKEYDAISYBENET (Non-RNAV)		
		REBRG.J7.DERBB (Non-RNAV)		
Props East of J7	LGB/SNA	EHF	AOB FL270	
			AOB FL310	
All Other Props	LGB/SNA	FLW	(West of J501)	
		GVO	AOB FL230	
			(East of J501)	

		BURBANK AREA		
ALL (Jets)	BUR/VNY	BURGL HONZK MMTLY RDHOT REBRG AVE (Non-RNAV) FLW (Non-RNAV) REBRG.J7.DERBB (Non-RNAV)	AOB FL310	
Props East of J1	BUR/VNY	NINTY EHF LHS	AOB FL230	
All Other Props	BUR/VNY	RZS FLW	AOB FL230	
		SAN DIEGO AREA		
		via LAX	Must be over or west of J1	
ALL	SAN	HUULK PASKE EHF LANDO LAX (if via PLYYA STAR)		
ALL	CRQ/NFG	BURGL TILLT REBRG LANDO (AOB FL250) via DERBB.J7.FIM (Non-RNAV west of REBRG)		
	PALM SPRINGS			
ALL	PSP/TRM/UDD	CLASN OYVEY BTYZELMA PMD (Non-RNAV, LANDOPMD avoid R2508)	AOB FL370	
		EMPIRE AREA		
ALL	ALL	CLASN OYVEY PMD (LANDOPMD avoid R2508)	AOB FL350	
LAS VEGAS TERMINAL AREA				
ALL	LAS Jets	BASIC .Q174.FLCHR .J92.BTY (Non-RNAV)	AOB FL330 AOB FL310 via Q174	
ALL	LAS Non-Jets/HND	FUULL .J92 (Non-RNAV)	AOB FL310 AOB FL290	
ALL	VGT	.Q174.FLCHR .J92 (Non-RNAV)	props or via J92	
ALL	LSV	.J92	AOB FL330	

OTHER AIRPORTS			
ALL	SBA	via GVO	AOB FL290
ALL	SBP	MQO CREPE CADAB	

		ZLA OVERFLIGHTS	
ALL	MEXICO	LAX	Through ZLA 27
SFO/OAK/SJC	ALL	BOILE	Through ZLA 27

ATTACHMENT 2. PREFERRED ROUTES AND ALTITUDES FROM LOS ANGELES CENTER TO OAKLAND CENTER FOR TURBOJETS AND TURBOPROPS (as specified)

Preferred routes and altitudes for aircraft originating in or over-flying Los Angeles Center and entering Oakland Center.

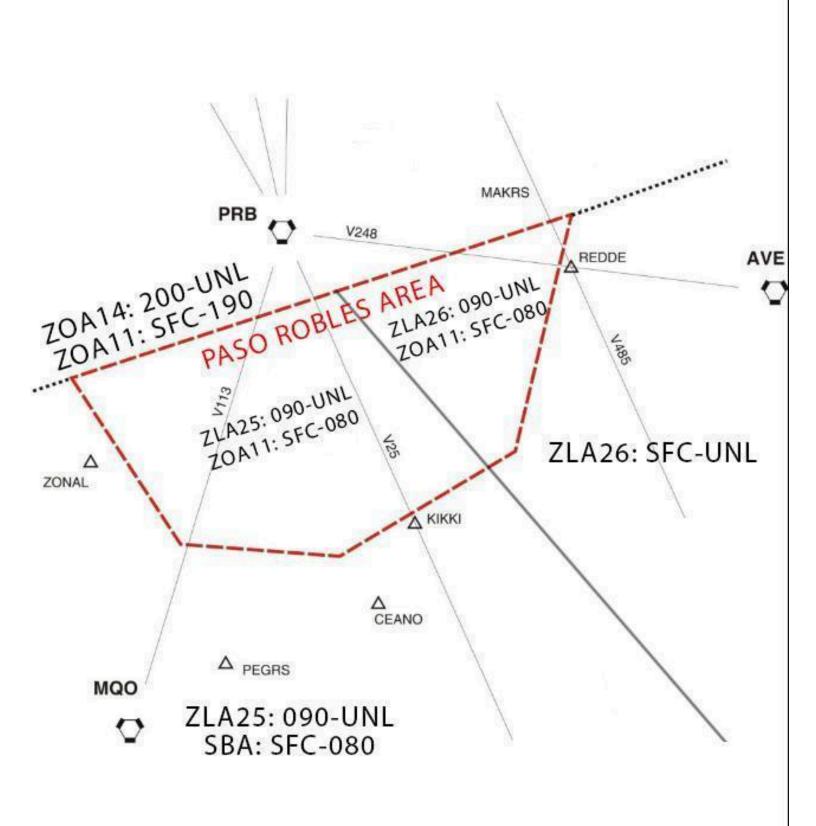
DEPARTURE	DESTINATION	ROUTING	ALTITUDE/ NOTES	
	SAN FRANCISCO AREA			
LA Basin/ MEXICO	SFO	SERFR BSR (Non-RNAV)		
PSP/Burbank Area	SFO	MAKRSSERFR BSR (Non-RNAV)		
Las Vegas Area/Airports East of LAS	SFO	RUSME .J92.LIDAT (Non-RNAV)		
SBA Area Jets	SFO	MQOCLMNSLIBBONRRLISERFR STAR		
SBA Area Props	3F0	MQOCLMNSLIBBOOSI		
		SAN JOSE AREA		
LA Basin/MEXICO	SJC	SCTRRTROXX SNS (Non-RNAV)	AOB FL360	
PSP/Burbank/ Empire Area	- 510	MAKRSTROXX SNS (Non-RNAV)	AOB FL300	
Las Vegas Area/Airports East of LAS	SJC	RUSME STUBL .J92.LIDAT (Non-RNAV)		
LA Basin		MAKRS WIGGL(West of MAKRS) PEBBS (West of MAKRS)	AOB FL280	
Las Vegas Area/Airports East of LAS	MRY	BTY.J92.LIDATFRASNS		
		OAKLAND AREA		
LA Basin/ MEXICO	OAK/HWD	RGOOD PXN (HWD + Non-RNAV)		
NTD/SBA Area	OAK/HWD	EMZOH PXN (HWD + Non-RNAV)		
Las Vegas Area/Airports East of LAS	OAK/HWD	RUSME .J92.LIDATOALSUNOL (Non-RNAV)		
SACRAMENTO AREA				
LA Basin/ MEXICO		NURAY EHF.V23.FRAME (Non-RNAV)		
Las Vegas Area/Airports East of LAS	SMF	DONNR .J92.OALSWRFLUNK (Non-RNAV)	AOB FL360	

	RENO AREA			
LA Basin/MEXICO	RNO	FMG SLEAT		
Las Vegas Area/Airports East of LAS	RNO	KENNO .J92.OALMVA (Non-RNAV) .J92.OALTARVR (Non-RNAV)	AOB FL340	
Las Vegas Area/Airports East of LAS	NFL	KENNO .J92.OAL (Non-RNAV)	AOB FL280	
	-	OTHER AIRPORTS		
All except Las Vegas Area/Airports East of LAS	_ FAT	TTE.ALTTA STAR		
Las Vegas Area/Airports East of LAS		KENNOTTMSN RUSMECABAB KENNOBIHFRA (Non-RNAV)	AOB FL300	
LA	SCK	NURAYMOD EHF.V23.FRAME (Non-RNAV)	AOB FL320	
Basin/MEXICO	CCR/SUU	NURAY EHF.V23.FRAME (Non-RNAV)		
All	PRB	PRB		
All	NLC	AVECARRL orAVEWADDE	Over AVE	
		CETTABUMPI	East of AVE	
Las Vegas Area/Airports East of LAS	TRK/TVL	Direct	AOB FL340	
Las Vegas Area/Airports East of LAS	LVK/SCK/MOD	KENNO .Q13.SKANN .J92.LIDAT (Non-RNAV)		
Las Vegas Area/Airports East of LAS	APC/STS	KENNO via RUSME via SNORA .J92.LIDAT (Non-RNAV)		
LA Basin/MEXICO	APC/STS	RGOOD		
Required Asia Routing				
LA Basin	Via ALCOA, REDWD, LINUZ, BOXER	No further direct than SNS or LIBBO		

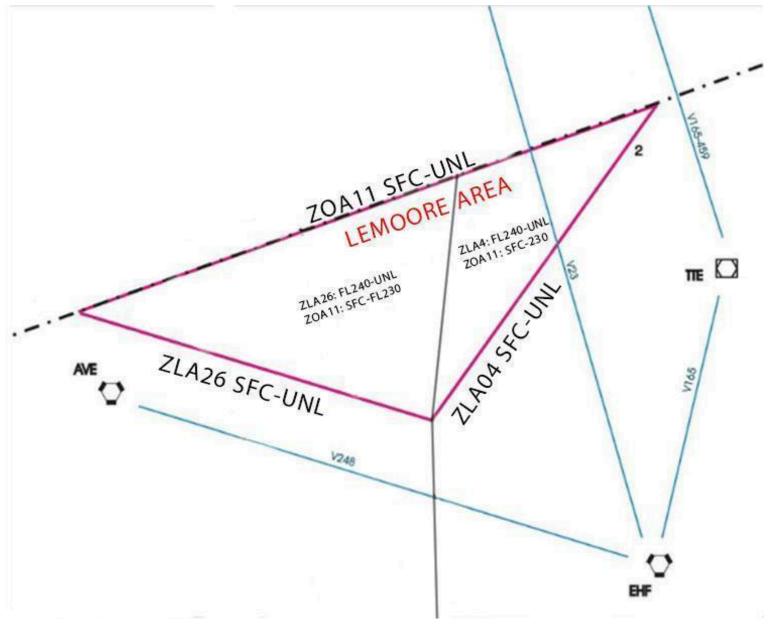
ATTACHMENT 3. TOWER ENROUTE CONTROL ROUTES BETWEEN FAT AND BFL TRACONS

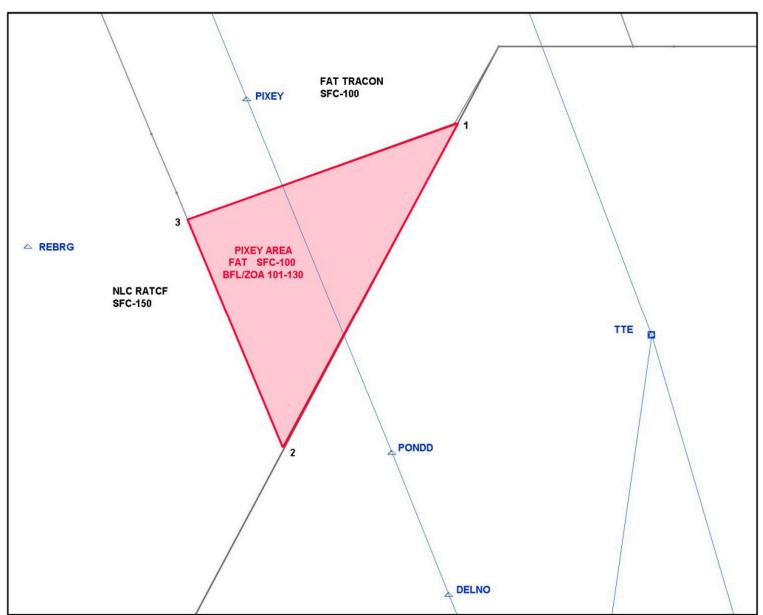
DESTINATION	ROUTING	ALTITUDE
LAI	NDING BAKERSFIELD TERMINAL AF	REA
BFL, L45, MIT, L17, L84, L62	.V23.EHF	5,000/7,000/9,000
DLO, L19	.VZ3.EHF	5,000/7,000
PTV	.V165.TTE or direct IAF RNAV 12	5,000
	LANDING FRESNO TERMINAL AREA	\
FAT	TTE.ALTTA STAR	
FCH	.V23.FRAME	6,000/8,000/10,000
MAE, E79, O32, D86, 0Q4	.VZ3.FRAME	
VIS	BRETTPANES or BRETTlocalizer	
TLR	.V165.EXTRA	6,000
HJO	VIS or direct IAF RNAV 32	

ATTACHMENT 4. PASO ROBLES AREA

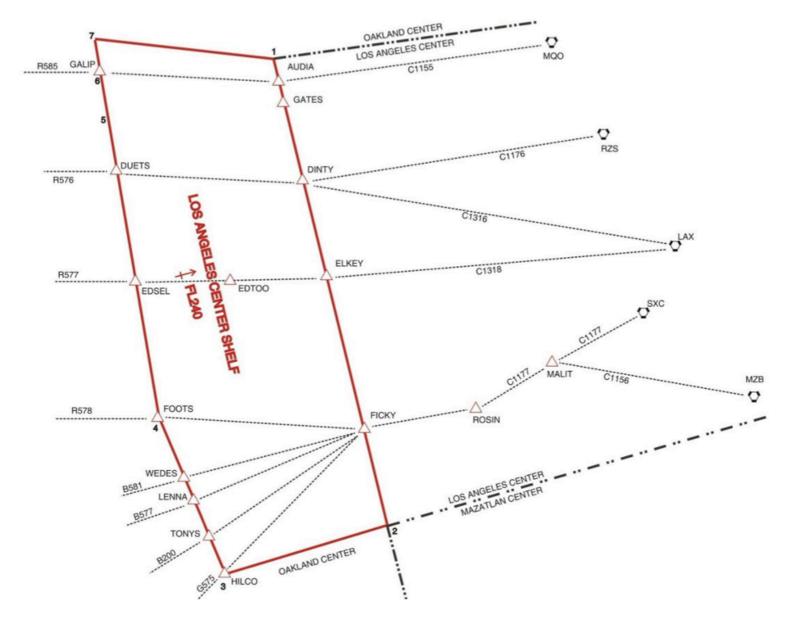


ATTACHMENT 5. LEMOORE AREA





ATTACHMENT 6. PIXEY AREA



ATTACHMENT 7. ZLA OCEANIC SHELF

Change	Date	Description	ZOA Approval	ZLA Approval
	04MAY2017	Initial Write	Ryan Parry - ATM	Ethan Bernstein – ATM
CHG01	25 MAR2018	Rewrite for new ZOA sectors	Ryan Parry – ATM	Nickolas Christopher – ATM
CHG02	16 SEP 2019	Update routes and ZLA sectors	Ryan Parry – ATM	Nickolas Christopher – ATM
CHG03	01 MAR 2021	L30 Metroplex changes	Daniel Everman – ATM	Nickolas Christopher – ATM
CHG04	24 APR 2021	Updated SAN Routings	Daniel Everman – ATM	Nickolas Christopher – ATM
CHG05	31 AUG 2021	Updated MRY/SMF Routing	Daniel Everman – ATM	Nickolas Christopher – ATM
CHG06	23 FEB 2023	Merge in SBA/BFL LOAs, reformat, update routings, add oceanic procedures	Ryan Parry – ATM	Nickolas Christopher – ATM
CHG07	11 JUL 2024	Updates for ZLA Sectors, changes to SFO SIDs	Andrew Selder – ATM	Nickolas Christopher – ATM
CHG08	13 JAN 2025	Updates to remove STAR requirements, RW alignment	Matthew Tedesco – ATM	Nickolas Christopher – ATM

ATTACHMENT 8. LIST OF CHANGES

Matthew Tedesco	Nickolas Christopher
Air Traffic Manager – Oakland ARTCC	Air Traffic Manager – Los Angeles ARTCC