

RADIO FIX AND HOLDING DATA RECORD

NAME: APLES **STATE:** CA **COUNTRY:** US **ICAO REGION CODE:** K2

LATITUDE/LONGITUDE: 343254.48N/1170858.14W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	PALMDALE	PMD	VORTAC	H	081.00	096.00	45.56	45.56		7000	17500
2	PARADISE	PDZ	VORTAC	VH	011.53	026.53	42.22	42.22		10000	17500
3	DAGGETT	DAG	VORTAC	L	213.88	228.88	37.59	37.59		7000	17500
4	HECTOR	HEC	VORTAC	VH	231.53	246.53		37.09		10000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
PMD	VORTAC	R-081	46	7000	17000
PDZ	VORTAC	R-012	43	10000	16000

FIX RESTRICTIONS:

MCA V386 7300 EASTBOUND
MCA V394 9200 SOUTHWEST BOUND
MCA V210 9200 SOUTHWEST BOUND

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:

PALMDALE (FAC 1) AND DAGGETT (FAC 3) USED TO ESTABLISH FIX COORDINATES.
PDZ ESV IS FOR DME.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ANAHEIM	1, 2, 3, 4		FUL	FULLERTON	CA (US)
DP	ANAHEIM	1, 2, 3, 4		LGB	LONG BEACH	CA (US)
DP	LGANN (RNAV)			PSP	PALM SPRINGS	CA (US)
DP	YUCCA (RNAV)			PSP	PALM SPRINGS	CA (US)
DP	ANAHEIM	1, 2, 3, 4		SNA	SANTA ANA	CA (US)
EN ROUTE	V210	1, 2, 3, 4				(US)
EN ROUTE	V386	1, 2, 3, 4				(US)
EN ROUTE	V394	1, 2, 3, 4				(US)
EN ROUTE	V442	1, 2, 3, 4				(US)
IAP	RNAV (GPS) RWY 17			VCV	VICTORVILLE	CA (US)
STAR	EMMLN	1, 2, 3, 4		FUL	FULLERTON	CA (US)
STAR	EMMLN	1, 2, 3, 4		HHR	HAWTHORNE	CA (US)
STAR	EMMLN	1, 2, 3, 4		LGB	LONG BEACH	CA (US)
STAR	EMMLN	1, 2, 3, 4		SLI	LOS ALAMITOS	CA (US)
STAR	EMMLN	1, 2, 3, 4		SNA	SANTA ANA	CA (US)

REQUIRED CHARTING: DP, STAR, IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 25

DATE OF REVISION: 05/14/2026

REASON FOR REVISION:

FIX MAKE-UP FACILITIES: DELETED FAC 4 (VCV), CHANGED HEC FROM FAC 5 TO FAC 4; ADDED EDW AS FAC 5; CHANGED FAC 3 (DAG) MRA FROM 7500 TO 7000.

EXPANDED SERVICE VOLUME (ESV): ADDED EDW ESV.

REMARKS: ADDED PDZ ESV IS FOR DME.

FIX USE: CHANGED V210 AND V394 FAC FROM 1, 3 TO 1, 2, 3, 4, 5; V442 FAC FROM 2, 5 TO 1, 2, 3, 4, 5; V286 FAC FROM 1, 2 TO 1, 2, 3, 4, 5; DELETED VCV AS FAC 4 FROM ALL CONVENTIONAL IFPS; ADDED HEC FAC 4 AND EDW FAC 5 TO ALL CONVENTIONAL IFPS. DATA REMOVED FROM IAP VOR/DME RWY 17 SCHEDULED FOR CANCELLATION ON 01/22/2026.

REQUIRED CHARTING: DELETED CHARTING NOTES, DO NOT CHART FAC 4 (VCV) ON ENROUTE LOW.

03/19/2026: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 03/17/2026.

1. FIX USE: REMOVE FAC 5 FROM ALL PROCEDURES AND AIRWAYS.
2. FIX MAKE-UP FACILITIES: REMOVED FAC 5 (EDW) AND ALL DATA.
3. ESV: REMOVED EDW VORTAC DATA.



INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: LEE STUCKEY

APPROVED BY:

DATE: 04/09/2026

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

REQUIRED CHARTING: DP, STAR, IAP, AREA, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14

DATE OF REVISION: 02/20/2025

REASON FOR REVISION:

1. HOLDING CONTROLLING OBSTRUCTIONS: CHANGED PAT 3 AIRSPEED 175/200 KTS OBSTACLES COORDINATE/ELEVATION/ACCURACY CODE FROM "341527.38N/1181356.48W/4640/2C" TO "341527.00N/1181357.00W/4426/4B."
2. HOLDING PRECIPITOUS TERRAIN ADDITIONS: CHANGED PAT 3 AIRSPEED 175/200 KTS ADDITIONS FROM "280" TO "290."
3. REMARKS: UPDATED CONTROLLING OBSTACLE FOR PAT 3 LOCATION AND ELEVATION FROM 998/3643 TO 996/3630."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: KAMARUDINI RAIMI

APPROVED BY:

DATE: 01/16/2025

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

SIGNATURE:

STAR	KAYOH	LGB	LONG BEACH	CA (US)
STAR	EMMLN	SLI	LOS ALAMITOS	CA (US)
STAR	KAYOH	SLI	LOS ALAMITOS	CA (US)
STAR	BASET	LAX	LOS ANGELES	CA (US)
STAR	ZIGGY	ONT	ONTARIO	CA (US)
STAR	ZIGGY	RAL	RIVERSIDE	CA (US)
STAR	ZIGGY	SBD	SAN BERNARDINO	CA (US)
STAR	EMMLN	SNA	SANTA ANA	CA (US)
STAR	KAYOH	SNA	SANTA ANA	CA (US)
STAR	PITBL (RNAV)	SBA	SANTA BARBARA	CA (US)
STAR	KAYOH	TOA	TORRANCE	CA (US)
STAR	LYNXX	VNY	VAN NUYS	CA (US)
STAR	CRESO	LAS	LAS VEGAS	NV (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 27 **DATE OF REVISION:** 06/12/2025

REASON FOR REVISION:

1. FIX MAKE-UP FACILITIES: CHANGED FAC CLASS FROM H TO VH.
2. FIX USE: CHANGED IAP NAME FROM HI-TACAN RWY 25 TO HI-TACAN Y RWY 25 AT KPMD.
3. FIX USE: REMOVED DP MAYSА (RNAV) AT AIRPORTS KCHD, KGEU, KGYR, KIWA, KPHX, AND KSDL.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A423	NAME: RAYMOND JOHNSON
APPROVED BY:	DATE: 05/08/2025	OFFICE: AJV-A423	NAME: ALLAN WILL

SIGNATURE:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: RAYMOND JOHNSON

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

9	RNAV (GPS) Y RWY 8L	KONT	ONTARIO	CA (US)
9	RNAV (GPS) Y RWY 26L	KONT	ONTARIO	CA (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 PDZ VORTAC MAGVAR: 15E 1965.
 PATTERNS 3 200K CONTROLLING OBSTACLES LOCATED 11969.95 FT INTO SECONDARY AREA -PRIMARY EQUIVALENT VALUE 2149.21 FT.
 PATTERNS 5 200K CONTROLLING OBSTACLES LOCATED 11956.58 FT INTO SECONDARY AREA -PRIMARY EQUIVALENT VALUE 2167.37 FT.
 PATTERN 4 310K CONTROLLING OBSTACLE LOCATED 7291.1 FT INTO SECONDARY AREA - PRIMARY EQUIVALENT VALUE 3407.01 FT - PAT 13 USED FOR CIH EVALUATION.
 PATTERN 5 310K CONTROLLING OBSTACLE LOCATED 7023.75 FT INTO SECONDARY AREA - PRIMARY EQUIVALENT VALUE 3417.81 FT - PAT 13 USED FOR CIH EVALUATION.
 PATTERN 7 310K CONTROLLING OBSTACLE LOCATED 9864.62 FT INTO SECONDARY AREA - PRIMARY EQUIVALENT VALUE 5770.50 FT - PAT 14 USED FOR CIH EVALUATION.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
SPECIAL DP	LEHNO (RNAV)			4CL9	COLTON	CA (US)
SPECIAL DP	CASOG (RNAV)			CA28	MORENO VALLEY	CA (US)
SPECIAL IAP	COPTER RNAV (GPS) 34		8	4CL9	COLTON	CA (US)
SPECIAL IAP	COPTER RNAV (GPS) 13		8	CA28	MORENO VALLEY	CA (US)
DP	TAKEOFF MINIMUMS		2	CNO	CHINO	CA (US)
DP	TAKEOFF MINIMUMS		7	AJO	CORONA	CA (US)
DP	TAKEOFF MINIMUMS		7	EMT	EL MONTE	CA (US)
DP	ANAHEIM			FUL	FULLERTON	CA (US)
DP	ANAHEIM			LGB	LONG BEACH	CA (US)
DP	NIKKL			ONT	ONTARIO	CA (US)
DP	TAKEOFF MINIMUMS		1	ONT	ONTARIO	CA (US)
DP	CATHEDRAL			PSP	PALM SPRINGS	CA (US)
DP	TAKEOFF MINIMUMS		7	REI	REDLANDS	CA (US)
DP	RIVERSIDE (OBSTACLE)		5	RAL	RIVERSIDE	CA (US)
DP	TAKEOFF MINIMUMS		5	RIR	RIVERSIDE/RUBIDOUX	CA (US)
DP	TAKEOFF MINIMUMS		7	SBD	SAN BERNARDINO	CA (US)
DP	PEBLE			SAN	SAN DIEGO	CA (US)
DP	ANAHEIM			SNA	SANTA ANA	CA (US)
DP	EL TORO			SNA	SANTA ANA	CA (US)
DP	IRVINE			SNA	SANTA ANA	CA (US)
DP	MUSEL			SNA	SANTA ANA	CA (US)
DP	TAKEOFF MINIMUMS		5	CCB	UPLAND	CA (US)
DP	ADAMM			VNY	VAN NUYS	CA (US)
EN ROUTE	J50					(US)
EN ROUTE	J60					(US)
EN ROUTE	J74					(US)
EN ROUTE	J93					(US)
EN ROUTE	J96					(US)
EN ROUTE	T306					(US)
EN ROUTE	V16					(US)
EN ROUTE	V186					(US)
EN ROUTE	V197					(US)
EN ROUTE	V21					(US)
EN ROUTE	V370					(US)
EN ROUTE	V388					(US)
EN ROUTE	V442					(US)
EN ROUTE	V8					(US)
IAP	ILS OR LOC RWY 26R			CNO	CHINO	CA (US)
IAP	RNAV (GPS) RWY 26R			CNO	CHINO	CA (US)
IAP	VOR RWY 26R			CNO	CHINO	CA (US)
IAP	RNAV (GPS)-B			AJO	CORONA	CA (US)
IAP	VOR-A		10	AJO	CORONA	CA (US)
IAP	RNAV (GPS)-B		3	EMT	EL MONTE	CA (US)
IAP	VOR-A			EMT	EL MONTE	CA (US)
IAP	RNAV (GPS) RWY 25			HHR	HAWTHORNE	CA (US)
IAP	ILS RWY 26L		2	POC	LA VERNE	CA (US)
IAP	LOC RWY 26L		2	POC	LA VERNE	CA (US)
IAP	RNAV (GPS) RWY 26L			POC	LA VERNE	CA (US)
IAP	VOR OR GPS-A			POC	LA VERNE	CA (US)
IAP	ILS OR LOC RWY 6L			LAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 6R (ALT MA)			LAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 26L			ONT	ONTARIO	CA (US)
IAP	ILS OR LOC RWY 26R			ONT	ONTARIO	CA (US)
IAP	ILS OR LOC RWY 8L			ONT	ONTARIO	CA (US)
IAP	ILS RWY 26L (CAT II - III)		2	ONT	ONTARIO	CA (US)
IAP	ILS RWY 26R (CAT II/III)		2	ONT	ONTARIO	CA (US)
IAP	RNAV (GPS) Y RWY 26L		9	ONT	ONTARIO	CA (US)
IAP	RNAV (GPS) Y RWY 26R		9	ONT	ONTARIO	CA (US)
IAP	RNAV (GPS) Y RWY 8L		9	ONT	ONTARIO	CA (US)
IAP	RNAV (GPS) Y RWY 8R			ONT	ONTARIO	CA (US)
IAP	RNAV (RNP) Z RWY 26L			ONT	ONTARIO	CA (US)
IAP	RNAV (RNP) Z RWY 26R			ONT	ONTARIO	CA (US)
IAP	HI-ILS Y OR LOC Y RWY 25			PMD	PALMDALE	CA (US)
IAP	HI-TACAN Y RWY 25			PMD	PALMDALE	CA (US)
IAP	RNAV (GPS)-A			REI	REDLANDS	CA (US)
IAP	ILS OR LOC RWY 9			RAL	RIVERSIDE	CA (US)
IAP	VOR RWY 9		4	RAL	RIVERSIDE	CA (US)
IAP	VOR-A		4	RAL	RIVERSIDE	CA (US)
IAP	HI-TACAN Z RWY 32			RIV	RIVERSIDE	CA (US)
IAP	HI-VOR Z RWY 32			RIV	RIVERSIDE	CA (US)
IAP	ILS OR LOC Y RWY 32			RIV	RIVERSIDE	CA (US)
IAP	VOR Y RWY 32			RIV	RIVERSIDE	CA (US)

IAP	RNAV (GPS) -A	6	RIR	RIVERSIDE/RUBIDOUX/	CA (US)
IAP	ILS OR LOC Z RWY 6	5	SBD	SAN BERNARDINO	CA (US)
IAP	LOC Y RWY 6	5	SBD	SAN BERNARDINO	CA (US)
IAP	RNAV (GPS) Y RWY 6	6	SBD	SAN BERNARDINO	CA (US)
IAP	RNAV (GPS) Z RWY 6	6	SBD	SAN BERNARDINO	CA (US)
IAP	RNAV (RNP) RWY 24	6	SBD	SAN BERNARDINO	CA (US)
IAP	RNAV (RNP) X RWY 6	6	SBD	SAN BERNARDINO	CA (US)
IAP	ILS OR LOC RWY 20R		SNA	SANTA ANA	CA (US)
IAP	ILS RWY 20R (SA CAT I)		SNA	SANTA ANA	CA (US)
IAP	VOR-A	2	CCB	UPLAND	CA (US)
STAR	FERNANDO		BUR	BURBANK	CA (US)
STAR	SETER		CNO	CHINO	CA (US)
STAR	ZIGGY		CNO	CHINO	CA (US)
STAR	SETER		AJO	CORONA	CA (US)
STAR	ZIGGY		AJO	CORONA	CA (US)
STAR	SETER		EMT	EL MONTE	CA (US)
STAR	ZIGGY		EMT	EL MONTE	CA (US)
STAR	EMMLN		FUL	FULLERTON	CA (US)
STAR	KAYOH		FUL	FULLERTON	CA (US)
STAR	EMMLN		HHR	HAWTHORNE	CA (US)
STAR	SETER		POC	LA VERNE	CA (US)
STAR	ZIGGY		POC	LA VERNE	CA (US)
STAR	EMMLN		LGB	LONG BEACH	CA (US)
STAR	KAYOH		LGB	LONG BEACH	CA (US)
STAR	EMMLN		SLI	LOS ALAMITOS	CA (US)
STAR	KAYOH		SLI	LOS ALAMITOS	CA (US)
STAR	BASET	1	LAX	LOS ANGELES	CA (US)
STAR	KIMMO		LAX	LOS ANGELES	CA (US)
STAR	SEAVU		LAX	LOS ANGELES	CA (US)
STAR	KARLB (RNAV)		ONT	ONTARIO	CA (US)
STAR	SETER		ONT	ONTARIO	CA (US)
STAR	ZIGGY		ONT	ONTARIO	CA (US)
STAR	SETER		RAL	RIVERSIDE	CA (US)
STAR	ZIGGY		RAL	RIVERSIDE	CA (US)
STAR	ARKOE		RIV	RIVERSIDE	CA (US)
STAR	MARCH		RIV	RIVERSIDE	CA (US)
STAR	SETER		SBD	SAN BERNARDINO	CA (US)
STAR	ZIGGY		SBD	SAN BERNARDINO	CA (US)
STAR	EMMLN		SNA	SANTA ANA	CA (US)
STAR	KAYOH		SNA	SANTA ANA	CA (US)
STAR	FERNANDO		SMO	SANTA MONICA	CA (US)
STAR	KIMMO		SMO	SANTA MONICA	CA (US)
STAR	KAYOH		TOA	TORRANCE	CA (US)
STAR	FERNANDO		VNY	VAN NUYS	CA (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, AREA, EN ROUTE LOW, EN ROUTE HIGH, SPECIAL IAP, SPECIAL DP, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 45

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

1. PATTERNS: ADDED PATTERN 10 AND ALL ASSOCIATED DATA.
2. CONTROLLING OBSTRUCTIONS: ADDED PATTERN 10 AAO AND ALL ASSOCIATED DATA.
3. PRECIPITIOUS TERRAIN ADDITIONS: ADDED PATTERN 10 ASSOCIATED DATA.
4. PROCEDURE REQUIRING CLIMB-IN-HOLD: REMOVED KAJO "VOR OR GPS-A".
5. FIX USE: CHANGED IAP KAJO "VOR OR GPS-A, PAT 2" TO "VOR-A, PAT 10".
6. FIX USE: ADDED IAP KAJO RNAV (GPS)-B.
7. FIX USE: CHANGED IAP NAME FROM "HI-ILS OR LOC RWY 25" TO "HI-ILS Y OR LOC Y RWY 25" AND FROM "HI-TACAN RWY 25" TO "HI-TACAN Y RWY 25" AT KPMD.
8. FIX USE: ADDED "ILS OR LOC RWY 6L" AND "ILS OR LOC RWY 6R" AT KLAX (ALT MA).

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** CODY GIVEN

APPROVED BY: **DATE:** 03/13/2025 **OFFICE:** AJV-A431 **NAME:** ERIC N SUSKI

SIGNATURE:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: TODD DAMRON

APPROVED BY:

DATE: 02/12/2026

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: SEAL BEACH VORTAC **STATE:** CA **COUNTRY:** US **ICAO REGION CODE:** K2

LATITUDE/LONGITUDE: 334659.88N/1180317.13W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	SEAL BEACH	SLI	VORTAC	VL						17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	NE	SLI	VORTAC	058.00	238.00	L	1	2600 17500	4 16
2	SE	SLI	VORTAC	120.00	300.00	L	1	1500 17500	4 16
3	S	SLI	VORTAC	171.00	351.00	L	1	1800 17500	4 16
4	NE		WP	058.00	238.00	L		2600 12000	5 10
5	SE		WP	122.00	302.00	L		2600 14000	5 11
6	SE		WP	120.00	300.00	L		3000 14000	5 11
7	SE		WP	123.35	303.35	L		1400 1400	4 4
8	S		WP	171.00	351.00	L		4000 6000	5 13

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	BLDG (06-000442)	334652.00N/1175336.00W	475	1D
2	200	TOWER (06-002478)	334725.60N/1180855.10W	337	2C
3	200	TOWER (06-002478)	334725.60N/1180855.10W	337	2C
3	310	TOWER (06-020156)	335246.90N/1180050.10W	744	1A
4	200	BLDG (06-000442)	334652.00N/1175336.00W	475	1D
5	200	TOWER (06-002478)	334725.60N/1180855.10W	337	2C
6	200	TOWER (06-002478)	334725.60N/1180855.10W	337	2C
7	175	TOWER (06-002478)	334725.60N/1180855.10W	337	2C
8	200	TOWER (06-002478)	334725.60N/1180855.10W	337	2C
8	310	TOWER (06-020156)	335246.90N/1180050.10W	744	1A

REASON FOR NONSTANDARD HOLDING:

- PAT 1 ATC REQUEST
- PAT 2 ATC REQUEST
- PAT 3 ATC REQUEST
- PAT 4 ATC REQUEST
- PAT 5 ATC REQUEST
- PAT 6 ATC REQUEST
- PAT 7 ATC REQUEST
- PAT 8 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
3	TAKEOFF MINIMUMS	KFUL	FULLERTON	CA (US)
3	TAKEOFF MINIMUMS	KSNA	SANTA ANA	CA (US)
8	RNAV (GPS) RWY 7	KHHR	HAWTHORNE	CA (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAG VAR: 15E (1975).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
SPECIAL DP	SUXYO (RNAV)			FUL	FULLERTON	CA (US)
SPECIAL DP	KUTEY (RNAV)			50CA	LONG BEACH	CA (US)
SPECIAL DP	AZPAD (RNAV)			14CA	NEWPORT BEACH	CA (US)
SPECIAL IAP	COPTER RNAV (GPS) 16		7	3CN4	ANAHEIM	CA (US)
SPECIAL IAP	COPTER RNAV (GPS) 25		7	50CA	LONG BEACH	CA (US)
SPECIAL IAP	COPTER RNAV (GPS) 17		7	14CA	NEWPORT BEACH	CA (US)
SPECIAL IAP	COPTER RNAV (GPS) 19		7	4CA5	ORANGE	CA (US)
DP	ELMOO			BUR	BURBANK	CA (US)
DP	CWARD (RNAV)			CRQ	CARLSBAD	CA (US)
DP	ANAHEIM			FUL	FULLERTON	CA (US)
DP	TAKEOFF MINIMUMS		3	FUL	FULLERTON	CA (US)
DP	ANAHEIM			LGB	LONG BEACH	CA (US)
DP	TAKEOFF MINIMUMS			LGB	LONG BEACH	CA (US)
DP	TAKEOFF MINIMUMS			SLI	LOS ALAMITOS	CA (US)
DP	CATALINA			LAX	LOS ANGELES	CA (US)
DP	LAXX			LAX	LOS ANGELES	CA (US)
DP	SEAL BEACH			LAX	LOS ANGELES	CA (US)
DP	SEBBY			LAX	LOS ANGELES	CA (US)

DP	TAKEOFF MINIMUMS		LAX	LOS ANGELES	CA (US)
DP	NIKKL		ONT	ONTARIO	CA (US)
DP	DOYLE		NTD	POINT MUGU	CA (US)
DP	CWARD (RNAV)		RNM	RAMONA	CA (US)
DP	CWARD (RNAV)		MYF	SAN DIEGO	CA (US)
DP	CWARD (RNAV)		SAN	SAN DIEGO	CA (US)
DP	ECHHO (RNAV)		SAN	SAN DIEGO	CA (US)
DP	FALCC		SAN	SAN DIEGO	CA (US)
DP	PEBLE		SAN	SAN DIEGO	CA (US)
DP	CWARD (RNAV)		SDM	SAN DIEGO	CA (US)
DP	CWARD (RNAV)		SEE	SAN DIEGO/EL CAJON	CA (US)
DP	ANAHEIM		SNA	SANTA ANA	CA (US)
DP	CHANNEL		SNA	SANTA ANA	CA (US)
DP	IRVINE		SNA	SANTA ANA	CA (US)
DP	MUSEL		SNA	SANTA ANA	CA (US)
DP	TAKEOFF MINIMUMS	3	SNA	SANTA ANA	CA (US)
DP	ADAMM		VNY	VAN NUYS	CA (US)
EN ROUTE	J134				(US)
EN ROUTE	J169				(US)
EN ROUTE	J78				(US)
EN ROUTE	T245				(US)
EN ROUTE	T247				(US)
EN ROUTE	T249				(US)
EN ROUTE	V165				(US)
EN ROUTE	V21				(US)
EN ROUTE	V23				(US)
EN ROUTE	V283				(US)
EN ROUTE	V372				(US)
EN ROUTE	V388				(US)
EN ROUTE	V394				(US)
EN ROUTE	V459				(US)
EN ROUTE	V597				(US)
EN ROUTE	V64				(US)
EN ROUTE	V8				(US)
IAP	VOR-A		EMT	EL MONTE	CA (US)
IAP	LOC/DME RWY 24	2	FUL	FULLERTON	CA (US)
IAP	RNAV (GPS) RWY 24	4	FUL	FULLERTON	CA (US)
IAP	VOR-A	1	FUL	FULLERTON	CA (US)
IAP	LOC RWY 25		HHR	HAWTHORNE	CA (US)
IAP	RNAV (GPS) RWY 7	8	HHR	HAWTHORNE	CA (US)
IAP	RNAV (GPS) RWY 25		HHR	HAWTHORNE	CA (US)
IAP	VOR RWY 25		HHR	HAWTHORNE	CA (US)
IAP	ILS RWY 26L		POC	LA VERNE	CA (US)
IAP	LOC RWY 26L		POC	LA VERNE	CA (US)
IAP	VOR OR GPS-A		POC	LA VERNE	CA (US)
IAP	ARSENAL VISUAL RWY 30		LGB	LONG BEACH	CA (US)
IAP	ILS OR LOC RWY 30		LGB	LONG BEACH	CA (US)
IAP	VOR OR TACAN RWY 22L		SLI	LOS ALAMITOS	CA (US)
IAP	ILS OR LOC RWY 25L		LAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 25R		LAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 6L		LAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 6R		LAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 7L		LAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 7R		LAX	LOS ANGELES	CA (US)
IAP	ILS RWY 25L (CAT II & III)		LAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 9		RAL	RIVERSIDE	CA (US)
IAP	ILS OR LOC RWY 20R	2	SNA	SANTA ANA	CA (US)
IAP	ILS RWY 20R (SA CAT I)	2	SNA	SANTA ANA	CA (US)
IAP	LDA RWY 20R	2	SNA	SANTA ANA	CA (US)
IAP	LOC BC RWY 2L	2	SNA	SANTA ANA	CA (US)
IAP	RNAV (GPS) Y RWY 2L	5	SNA	SANTA ANA	CA (US)
IAP	RNAV (RNP) Z RWY 2L	5	SNA	SANTA ANA	CA (US)
IAP	ILS OR LOC RWY 29R		TOA	TORRANCE	CA (US)
IAP	RNAV (GPS) RWY 29R		TOA	TORRANCE	CA (US)
IAP	VOR RWY 11L		TOA	TORRANCE	CA (US)
STAR	FERNANDO		BUR	BURBANK	CA (US)
STAR	EMMLN		FUL	FULLERTON	CA (US)
STAR	KAYOH		FUL	FULLERTON	CA (US)
STAR	BAUBB (RNAV)	6	LGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)	6	LGB	LONG BEACH	CA (US)
STAR	EMMLN		LGB	LONG BEACH	CA (US)
STAR	KAYOH		LGB	LONG BEACH	CA (US)
STAR	PCIFC (RNAV)	6	LGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)	6	LGB	LONG BEACH	CA (US)
STAR	TANDY		LGB	LONG BEACH	CA (US)
STAR	EMMLN		SLI	LOS ALAMITOS	CA (US)
STAR	KAYOH		SLI	LOS ALAMITOS	CA (US)
STAR	TANDY		SLI	LOS ALAMITOS	CA (US)
STAR	BASET		LAX	LOS ANGELES	CA (US)
STAR	DIRBY (RNAV)		LAX	LOS ANGELES	CA (US)
STAR	GOATZ (RNAV)		LAX	LOS ANGELES	CA (US)
STAR	KIMMO		LAX	LOS ANGELES	CA (US)
STAR	LEENA		LAX	LOS ANGELES	CA (US)
STAR	OCEAN		LAX	LOS ANGELES	CA (US)
STAR	OLAAA (RNAV)		LAX	LOS ANGELES	CA (US)
STAR	VISTA		LAX	LOS ANGELES	CA (US)
STAR	DSNEE (RNAV)	6	SNA	SANTA ANA	CA (US)
STAR	EMMLN		SNA	SANTA ANA	CA (US)
STAR	KAYOH		SNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)	6	SNA	SANTA ANA	CA (US)

STAR	TANDY	SNA	SANTA ANA	CA (US)
STAR	FERNANDO	SMO	SANTA MONICA	CA (US)
STAR	KIMMO	SMO	SANTA MONICA	CA (US)
STAR	KAYOH	TOA	TORRANCE	CA (US)
STAR	FERNANDO	VNY	VAN NUYS	CA (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, MILITARY DP, IAP, EN ROUTE LOW, EN ROUTE HIGH, SPECIAL IAP, SPECIAL DP, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 38

DATE OF REVISION: 03/19/2026

REASON FOR REVISION:

1. FIX USE: ADDED STAR TANDY FOR AIRPORT KSLI.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: TODD DAMRON

APPROVED BY:

DATE: 02/12/2026

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: VENTURA VOR/DME STATE: CA COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 340654.23N/1190258.20W TYPE:

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC	MRA	MAA
							NM	FEET		
1	VENTURA	VTU	VOR/DME	L						17500

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH	HOLDING ALTITUDES	TEMPLATES	
							DME	MIN MAX	MIN MAX	
1	NW	VTU	VOR/DME	310.63	130.63	L	1	4300	17500	5 16
2	NW	WP	WP	310.63	130.63	L	5	4600	6000	6 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	340721.00N/1185703.00W	3199	4E
2	200	AAO	340710.10N/1185611.60W	3311	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	78
2	200	150

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST
PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATIONS COMPLETED.
ASSIGNED FACILITY MAGVAR: 15E/1980.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	VAN NUYS			BUR	BURBANK	CA (US)
DP	ANAHEIM			FUL	FULLERTON	CA (US)
DP	ANAHEIM			LGB	LONG BEACH	CA (US)
DP	CHATY			LAX	LOS ANGELES	CA (US)
DP	PERCH			LAX	LOS ANGELES	CA (US)
DP	VENTURA			LAX	LOS ANGELES	CA (US)
DP	CAMARILLO			OXR	OXNARD	CA (US)
DP	SKIFF			OXR	OXNARD	CA (US)
DP	ANAHEIM			SNA	SANTA ANA	CA (US)
DP	CHANNEL			SNA	SANTA ANA	CA (US)
DP	IRVINE			SNA	SANTA ANA	CA (US)
DP	FLOUT			SBA	SANTA BARBARA	CA (US)
DP	KWANG			SBA	SANTA BARBARA	CA (US)
DP	SANTA BARBARA			SBA	SANTA BARBARA	CA (US)
DP	NEWHALL			VNY	VAN NUYS	CA (US)
EN ROUTE	T257					(US)
EN ROUTE	V208					(US)
EN ROUTE	V27					(US)
EN ROUTE	V299					(US)
EN ROUTE	V485					(US)
EN ROUTE	V25					CA (US)
IAP	ILS Y OR LOC Y RWY 8		1	BUR	BURBANK	CA (US)
IAP	ILS Z OR LOC Z RWY 8		1	BUR	BURBANK	CA (US)
IAP	RNAV (GPS) Z RWY 8		2	BUR	BURBANK	CA (US)
IAP	VOR RWY 8		1	BUR	BURBANK	CA (US)
IAP	RNAV (GPS) RWY 8			CMA	CAMARILLO	CA (US)
IAP	VOR RWY 26			CMA	CAMARILLO	CA (US)
IAP	ILS OR LOC RWY 25L			LAX	LOS ANGELES	CA (US)
IAP	ILS RWY 25L (CAT II & III)			LAX	LOS ANGELES	CA (US)
IAP	VOR-A			WHP	LOS ANGELES	CA (US)
IAP	RNAV (GPS) RWY 3			NTD	OXNARD	CA (US)
IAP	TACAN RWY 21			NTD	OXNARD	CA (US)
IAP	RNAV (GPS) RWY 7			OXR	OXNARD	CA (US)
IAP	VOR RWY 25			OXR	OXNARD	CA (US)
IAP	VOR-A			SMO	SANTA MONICA	CA (US)
IAP	ILS Y RWY 16R		1	VNY	VAN NUYS	CA (US)
IAP	ILS Z RWY 16R		1	VNY	VAN NUYS	CA (US)
IAP	LDA-C		1	VNY	VAN NUYS	CA (US)
IAP	RNAV (GPS) RWY 16R		2	VNY	VAN NUYS	CA (US)

IAP	VOR-A	VNY	VAN NUYS	CA (US)
STAR	FERNANDO	BUR	BURBANK	CA (US)
STAR	TANDY	LGB	LONG BEACH	CA (US)
STAR	OCEAN	LAX	LOS ANGELES	CA (US)
STAR	SADDE	LAX	LOS ANGELES	CA (US)
STAR	TANDY	SNA	SANTA ANA	CA (US)
STAR	FERNANDO	SMO	SANTA MONICA	CA (US)
STAR	FERNANDO	VNY	VAN NUYS	CA (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, AREA, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 23 **DATE OF REVISION:** 09/05/2024

REASON FOR REVISION:
1. FIX USE: REMOVED KBUR RNAV (GPS)-A.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A422	NAME: NICHOLAS PRATER
APPROVED BY:	DATE: 09/05/2024	OFFICE: AJV-A422	NAME: RAKE MCGRAW

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: WILMA **STATE:** CA **COUNTRY:** US **ICAO REGION CODE:** K2

LATITUDE/LONGITUDE: 334616.17N/1181534.16W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	LOS ANGELES	LAX	VORTAC	H	123.33	138.33	12.98	12.98		2300	17500
2	SEAL BEACH	SLI	VORTAC	L	251.00	266.00	10.27	10.27		2300	17500

FIX RESTRICTIONS:

MCA V64 2800 WESTBOUND
MCA V8 2800 WESTBOUND
WILMA (RNAV), 64CL, CARSON, CA
AIRSHIP RNAV (GPS) 338, 64CL, CARSON, CA

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SE	LAX	VORTAC	123.33	303.33	R	1		3000	6000	4	5
2	S		WP	157.57	337.57	R		4	2700	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	334451.00N/1182000.00W	1670	4E
1	310	AAO	334451.00N/1182000.00W	1670	4E
2	200	AAO	334451.00N/1181954.00W	1470	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR RWY 11L	KTOA	TORRANCE	CA (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 1 OBSTACLE PRIMARY EQUIVALENT 1057.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	WILMA (RNAV)			64CL	CARSON	CA (US)
DP	ANAHEIM	1, 2		FUL	FULLERTON	CA (US)
DP	ANAHEIM	1, 2		LGB	LONG BEACH	CA (US)
DP	ANAHEIM	1, 2		SNA	SANTA ANA	CA (US)
EN ROUTE	V25	1, 2				(US)
EN ROUTE	V8-64	1, 2				(US)
IAP	AIRSHIP RNAV (GPS) 338		2	64CL	CARSON	CA (US)
IAP	VOR-A	2		FUL	FULLERTON	CA (US)
IAP	RNAV (GPS) RWY 7			HHR	HAWTHORNE	CA (US)
IAP	VOR RWY 11L	1, 2	1	TOA	TORRANCE	CA (US)

REQUIRED CHARTING: DP, IAP, AREA, EN ROUTE LOW, SPECIAL IAP, SPECIAL DP, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 11/03/2022

REASON FOR REVISION:

- FIX USE: ADDED IAP RNAV (GPS) RWY 7 KHR CA
- REQUIRED CHARTING: ADDED CONTROLLER LOW

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**
OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 **NAME:** APRIL SARMENTO
APPROVED BY: **DATE:** 11/03/2022 **OFFICE:** AJV-A430 **NAME:** CASIMIR TABAKA
SIGNATURE: