

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 334913.13N/1175443.01W **TYPE:** 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	POMONA	POM	VORTAC	L	187.00	202.00	16.67	16.67		3000	17500
2	SEAL BEACH	SLI	VORTAC	VL	057.71	072.71	7.48	7.48		3000	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	057.71	237.71	L	1	3000 4000	4 4

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	334927.00N/1174321.00W	1769	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING IS LIMITED TO ESTABLISHED PATTERN.

REMARKS:

POMONA (FAC 1) AND SEAL BEACH (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V21	1, 2				(US)
EN ROUTE	V388	1, 2				(US)
EN ROUTE	V394					(US)
EN ROUTE	V8	1, 2				(US)
IAP	VOR OR TACAN RWY 22L	1, 2	1	KSLI	LOS ALAMITOS	CA (US)
STAR	EMMLN	1, 2		KFUL	FULLERTON	CA (US)
STAR	EMMLN	1, 2		KLGB	LONG BEACH	CA (US)
STAR	EMMLN	1, 2		KSLI	LOS ALAMITOS	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17 **DATE OF REVISION:** 01/22/2026

REASON FOR REVISION:

REMOVED EMMLN STAR FROM KHHR AND KSNA FIX USE.
FAC 2 CLASS CHANGED FROM L TO VL.
REMOVED AIRSPACE DOCKET 21-AWP-52.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A33 **NAME:** LISA DUDZINSKI

APPROVED BY: **DATE:** 12/18/2025 **OFFICE:** AJV-A33 **NAME:** ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 344527.99N/1165142.59W **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	HECTOR	HEC	VORTAC	VH	248.31	263.31	19.86	19.86	7900	17500
2	DAGGETT	DAG	VORTAC	L	213.88	228.88	18.61	18.61	7500	17500
3	PALMDALE	PMD	VORTAC	H	067.40	082.40		59.95	7500	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
PMD	VORTAC	R-067	60	7500	16900

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

REMARKS:
HECTOR (FAC 1) AND DAGGETT (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V12	1, 2, 3				(US)
EN ROUTE	V210	1, 2, 3				(US)
EN ROUTE	V394	2, 3				(US)
IAP	RNAV (GPS) RWY 18			KAPV	APPLE VALLEY	CA (US)
IAP	RNAV (GPS) RWY 26			KDAG	DAGGETT	CA (US)
IAP	RNAV (GPS) RWY 17			KVCV	VICTORVILLE	CA (US)
IAP	RNAV (GPS) RWY 21			KVCV	VICTORVILLE	CA (US)
STAR	JANNY (RNAV)			KBUR	BURBANK	CA (US)
STAR	LYNXX	1, 2, 3		KBUR	BURBANK	CA (US)
STAR	GUERA (RNAV)			KCMA	CAMARILLO	CA (US)
STAR	EMMLN	1, 2, 3		KFUL	FULLERTON	CA (US)
STAR	EMMLN	1, 2, 3		KHHR	HAWTHORNE	CA (US)
STAR	EMMLN	1, 2, 3		KLGB	LONG BEACH	CA (US)
STAR	EMMLN	1, 2, 3		KSLI	LOS ALAMITOS	CA (US)
STAR	BOGET (RNAV)			KLAX	LOS ANGELES	CA (US)
STAR	GUERA (RNAV)			KNTD	OXNARD	CA (US)
STAR	GUERA (RNAV)			KOXR	OXNARD	CA (US)
STAR	EMMLN	1, 2, 3		KSNA	SANTA ANA	CA (US)
STAR	BOGET (RNAV)			KSMO	SANTA MONICA	CA (US)
STAR	JANNY (RNAV)			KVNY	VAN NUYS	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 22 **DATE OF REVISION:** 01/25/2024

REASON FOR REVISION:
FIX USE: ADDED KVCV RNAV (GPS) RWY 21.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** ANDRE TUCKER

APPROVED BY: **DATE:** 11/30/2023 **OFFICE:** AJV-A430 **NAME:** ERIC N SUSKI

SIGNATURE:

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 23

DATE OF REVISION: 02/20/2025

REASON FOR REVISION:

1. ADDED STAR LARKK AT KLAS TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: ZACHARY KRUEGER

APPROVED BY:

DATE: 01/16/2025

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: DOWDD

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 335907.49N/1174955.80W

TYPE: 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	FAC FEET	MRA	MAA
1	POMONA	POM	VORTAC	L	187.00	202.00	6.01	6.01		4000	17500
2	PARADISE	PDZ	VORTAC	VH	270.00	285.00	15.61	15.61		4000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

POMONA (FAC 1) AND PARADISE (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V388	1, 2				(US)
EN ROUTE	V394	1, 2				(US)
STAR	EMMLN	1, 2		KFUL	FULLERTON	CA (US)
STAR	EMMLN	1, 2		KLGB	LONG BEACH	CA (US)
STAR	EMMLN	1, 2		KSLI	LOS ALAMITOS	CA (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 01/22/2026

REASON FOR REVISION:

REMOVED EMMLN STAR FROM KHHR AND KSNA FIX USE.
REMOVED WP FROM FIX TYPE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A33

NAME: LISA DUDZINSKI

APPROVED BY:

DATE: 12/18/2025

OFFICE: AJV-A33

NAME: ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 343729.85N/1165623.15W **TYPE:** INT, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	HECTOR	HEC	VORTAC	H	231.53	246.53	25.74	25.74	10000	17500
2	EDWARDS	EDW	VORTAC	T	106.43	118.43		44.64	10000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
EDW	VORTAC	R-106	45	10000	17500

HOLDING: **HOLDING TYPE OF ACTION:**

REMARKS:
HECTOR (FAC 1) AND EDWARDS (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	EMMLN	1, 2		KFUL	FULLERTON	CA (US)
STAR	EMMLN	1, 2		KHHR	HAWTHORNE	CA (US)
STAR	EMMLN	1, 2		KLGB	LONG BEACH	CA (US)
STAR	EMMLN	1, 2		KSLI	LOS ALAMITOS	CA (US)
STAR	EMMLN	1, 2		KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 11/03/2022

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A411 **NAME:** SYLVAN DRAKES

APPROVED BY: **DATE:** 07/14/2022 **OFFICE:** AJV-A410 **NAME:** JULIE MORGAN

SIGNATURE:

STAR	KAYOH	KLGB	LONG BEACH	CA (US)
STAR	EMMLN	KSLI	LOS ALAMITOS	CA (US)
STAR	KAYOH	KSLI	LOS ALAMITOS	CA (US)
STAR	BASET	KLAX	LOS ANGELES	CA (US)
STAR	ZIGGY	KONT	ONTARIO	CA (US)
STAR	ZIGGY	KRAL	RIVERSIDE	CA (US)
STAR	ZIGGY	KSBD	SAN BERNARDINO	CA (US)
STAR	EMMLN	KSNA	SANTA ANA	CA (US)
STAR	KAYOH	KSNA	SANTA ANA	CA (US)
STAR	PITBL (RNAV)	KSBA	SANTA BARBARA	CA (US)
STAR	KAYOH	KTOA	TORRANCE	CA (US)
STAR	LYNXX	KVNY	VAN NUYS	CA (US)
STAR	CRESO	KLAS	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 MAYSA (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:

DP	TAKEOFF MINIMUMS			KPMD	PALMDALE	CA (US)
DP	ANAHEIM			KSNA	SANTA ANA	CA (US)
DP	SANTA BARBARA			KSBA	SANTA BARBARA	CA (US)
DP	NEWHALL			KVNY	VAN NUYS	CA (US)
DP	TAKEOFF MINIMUMS			KVCV	VICTORVILLE	CA (US)
EN ROUTE	J6					(US)
EN ROUTE	J65					(US)
EN ROUTE	V12					(US)
EN ROUTE	V137					(US)
EN ROUTE	V197					(US)
EN ROUTE	V201					(US)
EN ROUTE	V386					(US)
EN ROUTE	V518					(US)
IAP	RNAV (GPS) RWY 24		3	KWJF	LANCASTER	CA (US)
IAP	VOR-B	1	4	KWJF	LANCASTER	CA (US)
IAP	RNAV (GPS) RWY 4			KMHV	MOJAVE	CA (US)
IAP	RNAV GPS RWY 30			KMHV	MOJAVE	CA (US)
IAP	HI-ILS Y OR LOC Y RWY 25	1		KPMD	PALMDALE	CA (US)
IAP	HI-TACAN Y RWY 25	1		KPMD	PALMDALE	CA (US)
IAP	ILS Z OR LOC Z RWY 25	1		KPMD	PALMDALE	CA (US)
IAP	VOR OR TACAN Z RWY 25	1	1	KPMD	PALMDALE	CA (US)
STAR	FASTO			KBFL	BAKERSFIELD	CA (US)
STAR	JANNY (RNAV)			KBUR	BURBANK	CA (US)
STAR	LYNXX			KBUR	BURBANK	CA (US)
STAR	GUERA (RNAV)			KCMA	CAMARILLO	CA (US)
STAR	ZIGGY			KCNO	CHINO	CA (US)
STAR	ZIGGY			KAJO	CORONA	CA (US)
STAR	ZIGGY			KEMT	EL MONTE	CA (US)
STAR	EMMLN			KFUL	FULLERTON	CA (US)
STAR	EMMLN			KHHR	HAWTHORNE	CA (US)
STAR	ZIGGY			KPOC	LA VERNE	CA (US)
STAR	EMMLN			KLGB	LONG BEACH	CA (US)
STAR	EMMLN			KSLI	LOS ALAMITOS	CA (US)
STAR	KIMMO			KLAX	LOS ANGELES	CA (US)
STAR	SADDE			KLAX	LOS ANGELES	CA (US)
STAR	ZIGGY			KONT	ONTARIO	CA (US)
STAR	GUERA (RNAV)			KNTD	OXNARD	CA (US)
STAR	GUERA (RNAV)			KOXR	OXNARD	CA (US)
STAR	ZIGGY			KRAL	RIVERSIDE	CA (US)
STAR	MARCH			KRIV	RIVERSIDE	CA (US)
STAR	ZIGGY			KSBD	SAN BERNARDINO	CA (US)
STAR	EMMLN			KSNA	SANTA ANA	CA (US)
STAR	JANNY (RNAV)			KVNY	VAN NUYS	CA (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: 29

DATE OF REVISION: 03/19/2026

REASON FOR REVISION:

1. PAT 3 230 AIRSPEED CONTROLLING OBSTACLE ALTITUDE AND AC CHANGED FROM "4721/4E" TO "4728/4B" AND PAT 3 310 AIRPSEED CONTROLLING OBSTACLE CHANGED FROM "AAO 242515.00N/1175630.00W 6847 4E" TO "AAO 342524.00N/1175636.00W 6779 4B"
2. PAT 3 210 PR ADDITION CHANGED FROM "120" TO "130" AND PAT 3 310 PR ADDITION CHANGED FROM "270" TO "280"
3. ADDED WJF RNAV (GPS) RWY 24 TO PROCEDURINGS REQUIRING CLIMB-IN-HOLD.
4. REMOVED KVCV ILS OR LOC RWY 17 AND VOR/DME RWY 17.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A422 **NAME:** BRITNEY ARMENTROUT

APPROVED BY: **DATE:** 02/12/2026 **OFFICE:** AJV-A422 **NAME:** RAKE MCGRAW

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	KCNO	CHINO	CA (US)
DP	TAKEOFF MINIMUMS		7	KAJO	CORONA	CA (US)
DP	TAKEOFF MINIMUMS		7	KEMT	EL MONTE	CA (US)
DP	ANAHEIM			KFUL	FULLERTON	CA (US)
DP	ANAHEIM			KLGB	LONG BEACH	CA (US)
DP	NIKKL			KONT	ONTARIO	CA (US)
DP	TAKEOFF MINIMUMS		1	KONT	ONTARIO	CA (US)
DP	CATHEDRAL			KPSP	PALM SPRINGS	CA (US)
DP	TAKEOFF MINIMUMS		7	KREI	REDLANDS	CA (US)
DP	RIVERSIDE (OBSTACLE)		5	KRAL	RIVERSIDE	CA (US)
DP	TAKEOFF MINIMUMS		5	KRIR	RIVERSIDE/RUBIDOUX	CA (US)
DP	TAKEOFF MINIMUMS		7	KSBD	SAN BERNARDINO	CA (US)
DP	PEBLE			KSAN	SAN DIEGO	CA (US)
DP	ANAHEIM			KSNA	SANTA ANA	CA (US)
DP	EL TORO			KSNA	SANTA ANA	CA (US)
DP	IRVINE			KSNA	SANTA ANA	CA (US)
DP	MUSEL			KSNA	SANTA ANA	CA (US)
DP	TAKEOFF MINIMUMS		5	KCCB	UPLAND	CA (US)
DP	ADAMM			KVNY	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			KCNO	CHINO	CA (US)
IAP	RNAV (GPS) RWY 26R			KCNO	CHINO	CA (US)
IAP	VOR RWY 26R			KCNO	CHINO	CA (US)
IAP	RNAV (GPS)-B			KAJO	CORONA	CA (US)
IAP	VOR-A		10	KAJO	CORONA	CA (US)
IAP	RNAV (GPS)-B		3	KEMT	EL MONTE	CA (US)
IAP	VOR-A			KEMT	EL MONTE	CA (US)
IAP	RNAV (GPS) RWY 25			KHHR	HAWTHORNE	CA (US)
IAP	ILS RWY 26L		2	KPOC	LA VERNE	CA (US)
IAP	LOC RWY 26L		2	KPOC	LA VERNE	CA (US)
IAP	RNAV (GPS) RWY 26L			KPOC	LA VERNE	CA (US)
IAP	VOR OR GPS-A			KPOC	LA VERNE	CA (US)
IAP	ILS OR LOC RWY 6L			KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 6R (ALT MA)			KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 26L			KONT	ONTARIO	CA (US)
IAP	ILS OR LOC RWY 26R			KONT	ONTARIO	CA (US)
IAP	ILS OR LOC RWY 8L			KONT	ONTARIO	CA (US)
IAP	ILS RWY 26L (CAT II - III)		2	KONT	ONTARIO	CA (US)
IAP	ILS RWY 26R (CAT II/III)		2	KONT	ONTARIO	CA (US)
IAP	RNAV (GPS) Y RWY 26L		9	KONT	ONTARIO	CA (US)
IAP	RNAV (GPS) Y RWY 26R		9	KONT	ONTARIO	CA (US)
IAP	RNAV (GPS) Y RWY 8L		9	KONT	ONTARIO	CA (US)
IAP	RNAV (GPS) Y RWY 8R			KONT	ONTARIO	CA (US)
IAP	RNAV (RNP) Z RWY 26L			KONT	ONTARIO	CA (US)
IAP	RNAV (RNP) Z RWY 26R			KONT	ONTARIO	CA (US)
IAP	HI-ILS Y OR LOC Y RWY 25			KPMD	PALMDALE	CA (US)
IAP	HI-TACAN Y RWY 25			KPMD	PALMDALE	CA (US)
IAP	RNAV (GPS)-A			KREI	REDLANDS	CA (US)
IAP	ILS OR LOC RWY 9			KRAL	RIVERSIDE	CA (US)
IAP	VOR RWY 9		4	KRAL	RIVERSIDE	CA (US)
IAP	VOR-A		4	KRAL	RIVERSIDE	CA (US)
IAP	HI-TACAN Z RWY 32			KRIV	RIVERSIDE	CA (US)
IAP	HI-VOR Z RWY 32			KRIV	RIVERSIDE	CA (US)
IAP	ILS OR LOC Y RWY 32			KRIV	RIVERSIDE	CA (US)
IAP	VOR Y RWY 32			KRIV	RIVERSIDE	CA (US)

IAP	RNAV (GPS) -A	6	KRIR	RIVERSIDE/RUBIDOUX/	CA (US)
IAP	ILS OR LOC Z RWY 6	5	KSBD	SAN BERNARDINO	CA (US)
IAP	LOC Y RWY 6	5	KSBD	SAN BERNARDINO	CA (US)
IAP	RNAV (GPS) Y RWY 6	6	KSBD	SAN BERNARDINO	CA (US)
IAP	RNAV (GPS) Z RWY 6	6	KSBD	SAN BERNARDINO	CA (US)
IAP	RNAV (RNP) RWY 24	6	KSBD	SAN BERNARDINO	CA (US)
IAP	RNAV (RNP) X RWY 6	6	KSBD	SAN BERNARDINO	CA (US)
IAP	ILS OR LOC RWY 20R		KSNA	SANTA ANA	CA (US)
IAP	ILS RWY 20R (SA CAT I)		KSNA	SANTA ANA	CA (US)
IAP	VOR-A	2	KCCB	UPLAND	CA (US)
STAR	FERNANDO		KBUR	BURBANK	CA (US)
STAR	SETER		KCNO	CHINO	CA (US)
STAR	ZIGGY		KCNO	CHINO	CA (US)
STAR	SETER		KAJO	CORONA	CA (US)
STAR	ZIGGY		KAJO	CORONA	CA (US)
STAR	SETER		KEMT	EL MONTE	CA (US)
STAR	ZIGGY		KEMT	EL MONTE	CA (US)
STAR	EMMLN		KFUL	FULLERTON	CA (US)
STAR	KAYOH		KFUL	FULLERTON	CA (US)
STAR	EMMLN		KHHR	HAWTHORNE	CA (US)
STAR	SETER		KPOC	LA VERNE	CA (US)
STAR	ZIGGY		KPOC	LA VERNE	CA (US)
STAR	EMMLN		KLGB	LONG BEACH	CA (US)
STAR	KAYOH		KLGB	LONG BEACH	CA (US)
STAR	EMMLN		KSLI	LOS ALAMITOS	CA (US)
STAR	KAYOH		KSLI	LOS ALAMITOS	CA (US)
STAR	BASET	1	KLAX	LOS ANGELES	CA (US)
STAR	KIMMO		KLAX	LOS ANGELES	CA (US)
STAR	SEAVU		KLAX	LOS ANGELES	CA (US)
STAR	KARLB (RNAV)		KONT	ONTARIO	CA (US)
STAR	SETER		KONT	ONTARIO	CA (US)
STAR	ZIGGY		KONT	ONTARIO	CA (US)
STAR	SETER		KRAL	RIVERSIDE	CA (US)
STAR	ZIGGY		KRAL	RIVERSIDE	CA (US)
STAR	ARKOE		KRIV	RIVERSIDE	CA (US)
STAR	MARCH		KRIV	RIVERSIDE	CA (US)
STAR	SETER		KSBD	SAN BERNARDINO	CA (US)
STAR	ZIGGY		KSBD	SAN BERNARDINO	CA (US)
STAR	EMMLN		KSNA	SANTA ANA	CA (US)
STAR	KAYOH		KSNA	SANTA ANA	CA (US)
STAR	FERNANDO		KSMO	SANTA MONICA	CA (US)
STAR	KIMMO		KSMO	SANTA MONICA	CA (US)
STAR	KAYOH		KTOA	TORRANCE	CA (US)
STAR	FERNANDO		KVNY	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:

STAR	EMMLN	1	KLGB	LONG BEACH	CA (US)
STAR	KAYOH		KLGB	LONG BEACH	CA (US)
STAR	EMMLN	1	KSLI	LOS ALAMITOS	CA (US)
STAR	KAYOH		KSLI	LOS ALAMITOS	CA (US)
STAR	SEAVU		KLAX	LOS ANGELES	CA (US)
STAR	ZIGGY		KONT	ONTARIO	CA (US)
STAR	ZIGGY		KRAL	RIVERSIDE	CA (US)
STAR	MARCH		KRIV	RIVERSIDE	CA (US)
STAR	ZIGGY		KSBD	SAN BERNARDINO	CA (US)
STAR	EMMLN	1	KSNA	SANTA ANA	CA (US)
STAR	KAYOH		KSNA	SANTA ANA	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 31 **DATE OF REVISION:** 08/07/2025

REASON FOR REVISION:
 FIX USE: KEMT: CHANGED VOR OR GPS-B TO RNAV (GPS)-B.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A422	NAME: JANTZEN TAYLOR
APPROVED BY:	DATE: 07/03/2025	OFFICE: AJV-A422	NAME: RAKE MCGRAW
	SIGNATURE:		

RADIO FIX AND HOLDING DATA RECORD

NAME: RNDAL

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 335829.92N/1174705.64W

TYPE: 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	FAC FEET	MRA	MAA
1	POMONA	POM	VORTAC	L	164.00	179.00	6.19	6.19		4000	17500
2	PARADISE	PDZ	VORTAC	VH	270.00	285.00	13.17	13.17		4000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

POMONA (FAC 1) AND PARADISE (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V363	1, 2				(US)
EN ROUTE	V388	1, 2				(US)
STAR	EMMLN	1, 2		KHHR	HAWTHORNE	CA (US)
STAR	EMMLN	1, 2		KSNA	SANTA ANA	CA (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 01/22/2026

REASON FOR REVISION:

REMOVED EMMLN STAR FROM KFUL, KLGB, AND KSLI FIX USE.
REMOVED WP FROM FIX TYPE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A33

NAME: LISA DUDZINSKI

APPROVED BY:

DATE: 12/18/2025

OFFICE: AJV-A33

NAME: ALLAN WILL

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)			KFUL	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			KBUR	BURBANK	CA (US)
DP	CWARD (RNAV)			KCRQ	CARLSBAD	CA (US)
DP	ANAHEIM			KFUL	FULLERTON	CA (US)
DP	TAKEOFF MINIMUMS		3	KFUL	FULLERTON	CA (US)
DP	ANAHEIM			KLGB	LONG BEACH	CA (US)
DP	TAKEOFF MINIMUMS			KLGB	LONG BEACH	CA (US)
DP	TAKEOFF MINIMUMS			KSLI	LOS ALAMITOS	CA (US)
DP	CATALINA			KLAX	LOS ANGELES	CA (US)
DP	LAXX			KLAX	LOS ANGELES	CA (US)
DP	SEAL BEACH			KLAX	LOS ANGELES	CA (US)
DP	SEBBY			KLAX	LOS ANGELES	CA (US)

DP	TAKEOFF MINIMUMS		KLAX	LOS ANGELES	CA (US)
DP	NIKKL		KONT	ONTARIO	CA (US)
DP	DOYLE		KNTD	POINT MUGU	CA (US)
DP	CWARD (RNAV)		KRNM	RAMONA	CA (US)
DP	CWARD (RNAV)		KMYF	SAN DIEGO	CA (US)
DP	CWARD (RNAV)		KSAN	SAN DIEGO	CA (US)
DP	ECHHO (RNAV)		KSAN	SAN DIEGO	CA (US)
DP	FALCC		KSAN	SAN DIEGO	CA (US)
DP	PEBLE		KSAN	SAN DIEGO	CA (US)
DP	CWARD (RNAV)		KSDM	SAN DIEGO	CA (US)
DP	CWARD (RNAV)		KSEE	SAN DIEGO/EL CAJON	CA (US)
DP	ANAHEIM		KSNA	SANTA ANA	CA (US)
DP	CHANNEL		KSNA	SANTA ANA	CA (US)
DP	IRVINE		KSNA	SANTA ANA	CA (US)
DP	MUSEL		KSNA	SANTA ANA	CA (US)
DP	TAKEOFF MINIMUMS	3	KSNA	SANTA ANA	CA (US)
DP	ADAMM		KVNY	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		KEMT	EL MONTE	CA (US)
IAP	LOC/DME RWY 24	2	KFUL	FULLERTON	CA (US)
IAP	RNAV (GPS) RWY 24	4	KFUL	FULLERTON	CA (US)
IAP	VOR-A	1	KFUL	FULLERTON	CA (US)
IAP	LOC RWY 25		KHHR	HAWTHORNE	CA (US)
IAP	RNAV (GPS) RWY 7	8	KHHR	HAWTHORNE	CA (US)
IAP	RNAV (GPS) RWY 25		KHHR	HAWTHORNE	CA (US)
IAP	VOR RWY 25		KHHR	HAWTHORNE	CA (US)
IAP	ILS RWY 26L		KPOC	LA VERNE	CA (US)
IAP	LOC RWY 26L		KPOC	LA VERNE	CA (US)
IAP	VOR OR GPS-A		KPOC	LA VERNE	CA (US)
IAP	ARSENAL VISUAL RWY 30		KLGB	LONG BEACH	CA (US)
IAP	ILS OR LOC RWY 30		KLGB	LONG BEACH	CA (US)
IAP	VOR OR TACAN RWY 22L		KSLI	LOS ALAMITOS	CA (US)
IAP	ILS OR LOC RWY 25L		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 25R		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 6L		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 6R		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 7L		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 7R		KLAX	LOS ANGELES	CA (US)
IAP	ILS RWY 25L (CAT II & III)		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 9		KRAL	RIVERSIDE	CA (US)
IAP	ILS OR LOC RWY 20R	2	KSNA	SANTA ANA	CA (US)
IAP	ILS RWY 20R (SA CAT I)	2	KSNA	SANTA ANA	CA (US)
IAP	LDA RWY 20R	2	KSNA	SANTA ANA	CA (US)
IAP	LOC BC RWY 2L	2	KSNA	SANTA ANA	CA (US)
IAP	RNAV (GPS) Y RWY 2L	5	KSNA	SANTA ANA	CA (US)
IAP	RNAV (RNP) Z RWY 2L	5	KSNA	SANTA ANA	CA (US)
IAP	ILS OR LOC RWY 29R		KTOA	TORRANCE	CA (US)
IAP	RNAV (GPS) RWY 29R		KTOA	TORRANCE	CA (US)
IAP	VOR RWY 11L		KTOA	TORRANCE	CA (US)
STAR	FERNANDO		KBUR	BURBANK	CA (US)
STAR	EMMLN		KFUL	FULLERTON	CA (US)
STAR	KAYOH		KFUL	FULLERTON	CA (US)
STAR	BAUBB (RNAV)	6	KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)	6	KLGB	LONG BEACH	CA (US)
STAR	EMMLN		KLGB	LONG BEACH	CA (US)
STAR	KAYOH		KLGB	LONG BEACH	CA (US)
STAR	PCIFC (RNAV)	6	KLGB	LONG BEACH	CA (US)
STAR	ROOBY (RNAV)	6	KLGB	LONG BEACH	CA (US)
STAR	TANDY		KLGB	LONG BEACH	CA (US)
STAR	EMMLN		KSLI	LOS ALAMITOS	CA (US)
STAR	KAYOH		KSLI	LOS ALAMITOS	CA (US)
STAR	TANDY		KSLI	LOS ALAMITOS	CA (US)
STAR	BASET		KLAX	LOS ANGELES	CA (US)
STAR	DIRBY (RNAV)		KLAX	LOS ANGELES	CA (US)
STAR	GOATZ (RNAV)		KLAX	LOS ANGELES	CA (US)
STAR	KIMMO		KLAX	LOS ANGELES	CA (US)
STAR	LEENA		KLAX	LOS ANGELES	CA (US)
STAR	OCEAN		KLAX	LOS ANGELES	CA (US)
STAR	OLAAA (RNAV)		KLAX	LOS ANGELES	CA (US)
STAR	VISTA		KLAX	LOS ANGELES	CA (US)
STAR	DSNEE (RNAV)	6	KSNA	SANTA ANA	CA (US)
STAR	EMMLN		KSNA	SANTA ANA	CA (US)
STAR	KAYOH		KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)	6	KSNA	SANTA ANA	CA (US)

STAR	TANDY	KSNA	SANTA ANA	CA (US)
STAR	FERNANDO	KSMO	SANTA MONICA	CA (US)
STAR	KIMMO	KSMO	SANTA MONICA	CA (US)
STAR	KAYOH	KTOA	TORRANCE	CA (US)
STAR	FERNANDO	KVNY	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: