

RADIO FIX AND HOLDING DATA RECORD

NAME: HAPPE STATE: CA COUNTRY: US ICAO REGION CODE: K2
 LATITUDE/LONGITUDE: 334017.85N/1163923.74W 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 NM	FAC FEET	MRA	MAA
1	THERMAL	TRM	VORTAC	H	263.12	276.12	25.00	25.00		10500	17500
2	PALM SPRINGS	PSP	VORTAC	L	210.74	223.74		16.43		10500	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	W	TRM	VORTAC	263.12	083.12	R	1-1 1/2		11300	17500	10	17
2	E	TRM	VORTAC	263.12	263.12	R	1-1 1/2		12000	17500	10	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	334809.00N/1164048.00W	10542	4E
2	230	AAO	334815.00N/1164051.00W	10614	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	375
2	230	375

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

THERMAL (FAC 1) AND PALM SPRINGS (FAC 2) USED TO ESTABLISH FIX COORDINATES
 HOLDING FOR ATC USE, DO NOT CHART.
 PAT 1 CONTROLLING OBSTACLE 1.97NM INTO SECONDARY AREA.
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EL TORO	1, 2		KSNA	SANTA ANA	CA (US)
DP	MUSEL	1, 2		KSNA	SANTA ANA	CA (US)
EN ROUTE	V64	1, 2				(US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 DATE OF REVISION: 01/08/2015

REASON FOR REVISION:

ADDED FACILITIES THAT ARE USED TO ESTABLISH FIX COORDINATES.
 CHANGED FAC 1 AND FAC 2 MRA TO 10500.

DEVELOPED BY: DATE: 10/14/2014 OFFICE: AJV-354 NAME: RONALD SALPINO

APPROVED BY: DATE: 01/08/2015 OFFICE: AJV-354 NAME: JILL OLSON

SIGNATURE:

DISTRIBUTION: NFDC
 FPO: WST
 ARTCC: ZLA
 ATC FACILITY: SOCAL TRACON
 OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: HEMET

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 334125.78N/1165244.58W

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	FAC FEET	MRA	MAA
1	SEAL BEACH	SLI	VORTAC	L	080.07	095.07		59.09		11000	17500
2	THERMAL	TRM	VORTAC	H	263.12	276.12	36.20	36.20		11000	17500
3	JULIAN	JLI	VORTAC	L	321.00	336.00		36.08		11000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
SLI	VORTAC	R-080	60	11000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

SEAL BEACH (FAC 1) AND JULIAN (FAC 3) USED TO ESTABLISH FIX COORDINATES
SLI DME UNUSABLE FOR FIX MAKE-UP AT MEA, PER FLIGHT INSPECTION FINDING 1/3/01.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LAXX	1, 2, 3		KLAX	LOS ANGELES	CA (US)
DP	NIKKL	1, 2, 3		KONT	ONTARIO	CA (US)
EN ROUTE	V64	1, 2, 3				(US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

RENAMED KONT DP FROM PRADO TO NIKKL.

DEVELOPED BY: DATE: 01/22/2016

OFFICE: AJV-5432

NAME: VICTOR BOONE (DUSTIN DAVIDSON)

APPROVED BY: DATE: 03/31/2016

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZLA
ATC FACILITY: SOCAL APP CON
OTHER:

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	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 TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	NE	SLI	VORTAC	058.00	238.00	L	1-1 1/2	2600 17500	4 16
2	SE	SLI	VORTAC	120.00	300.00	L	1-1 1/2	1500 17500	4 16
3	S	SLI	VORTAC	171.00	351.00	L	1-1 1/2	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		4000 14000	5 11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	AAO	335421.00N/1175742.00W	804	4E
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)	335246.80N/1180049.66W	750	4D
4	200	BLDG (06-000442)	334652.00N/1175336.00W	475	1D
5	200	AAO	334745.00N/1180924.00E	437	4E
6	200	AAO	334745.00N/1180924.00E	437	4E

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

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 1900.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RADAR 2	KSLI	LOS ALAMITOS	CA (US)
1	RADAR 3	KSLI	LOS ALAMITOS	CA (US)
3	TAKEOFF MINIMUMS	KFUL	FULLERTON	CA (US)
3	TAKEOFF MINIMUMS	KSNA	SANTA ANA	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
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	OSHNN (RNAV)			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	TKAYY (RNAV)			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	V394				(US)
EN ROUTE	V459				(US)
EN ROUTE	V597				(US)
EN ROUTE	V64				(US)
EN ROUTE	V8				(US)
IAP	NDB OR GPS-C		KEMT	EL MONTE	CA (US)
IAP	VOR OR GPS-A		KEMT	EL MONTE	CA (US)
IAP	VOR OR GPS-B		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 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 30	2	KLGB	LONG BEACH	CA (US)
IAP	RADAR 2	1	KSLI	LOS ALAMITOS	CA (US)
IAP	RADAR 3	1	KSLI	LOS ALAMITOS	CA (US)
IAP	VOR OR TACAN RWY 22L		KSLI	LOS ALAMITOS	CA (US)
IAP	ILS OR LOC RWY 06L		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 06R		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 07L		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 07R		KLAX	LOS ANGELES	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 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/DME 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	KAYOH		KFUL	FULLERTON	CA (US)
STAR	BAUBB (RNAV)	6	KLGB	LONG BEACH	CA (US)
STAR	DSNEE (RNAV)	6	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	KAYOH		KSLI	LOS ALAMITOS	CA (US)
STAR	BASET		KLAX	LOS ANGELES	CA (US)
STAR	DIRBY (RNAV)		KLAX	LOS ANGELES	CA (US)
STAR	DOWNE		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	SHIVE		KLAX	LOS ANGELES	CA (US)
STAR	VISTA		KLAX	LOS ANGELES	CA (US)
STAR	DSNEE (RNAV)	6	KSNA	SANTA ANA	CA (US)
STAR	KAYOH		KSNA	SANTA ANA	CA (US)
STAR	ROOBY (RNAV)	6	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, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO**RECORD REVISION NUMBER: 29****DATE OF REVISION: 07/19/2018****REASON FOR REVISION:**

1. DELETED NDB RWY 22L AT KSLI FROM FIX USE.
2. DELETED ILS OR LOC RWY 24L, RNAV (GPS) Y RWY 24L, AND OSHNN DP AT KLAX FROM FIX USE.
3. ADDED ILS OR LOC RWY 25L, ILS RWY 25L (CAT II & III), AND ILS OR LOC RWY 25R AT KLAX TO FIX USE.
4. ADDED FERNANDO STAR AT KVNY AND KSMO.
5. ADDED TKAYY (RNAV) DP AT KSAN TO FIX USE.
6. DELETED RNAV (RNP) RWY 30 AT KLGB FROM FIX USE.
7. ADDED ILS RWY 20R AT KSNA TO FIX USE.

DEVELOPED BY: **DATE:** 01/31/2018 **OFFICE:** AJV-5422 **NAME:** PETER GUIMOND**APPROVED BY:** **DATE:** **OFFICE:** AJV-5420 **NAME:** JULIE MORGAN**SIGNATURE:**

DISTRIBUTION: **NFDC**
 FPO: WST
 ARTCC: ZLA
 ATC FACILITY: SOCAL APP CON
 OTHER: USAASA

RADIO FIX AND HOLDING DATA RECORD

NAME: TUSTI

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 334600.91N/1175010.35W

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 NM	FAC FEET	MRA	MAA
1	SANTA ANA	I-OJW	LOC/DME		002.94	014.94	5.25	5.24	31853	1900	4500
2	SEAL BEACH	SLI	VORTAC	L	080.07	095.07	10.97	10.97		1900	17500
3	POMONA	POM	VORTAC	L	172.51	187.51		18.82		3000	17500

FIX RESTRICTIONS:

MCA V64 6200 EASTBOUND

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

SEAL BEACH (FAC 2) AND POMONA (FAC 3) USED TO ESTABLISH FIX COORDINATES
I-OJW DME COORDINATES: 334055.38N/1175144.91W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LAXX	2, 3		KLAX	LOS ANGELES	CA (US)
DP	TUSTI (RNAV)			KLAX	LOS ANGELES	CA (US)
EN ROUTE	V64	2, 3				(US)
IAP	LDA/DME RWY 20R	1, 2		KSNA	SANTA ANA	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 16

DATE OF REVISION: 07/19/2018

REASON FOR REVISION:

1. DELETED FAC 4 (BECCA LOM BEING DECOMMISSIONED).
2. DELETED FAC 5 (PDZ VORTAC R-224 UNUSABLE BELOW 10000).
3. ADDED MCA 6200 EASTBOUND TO V64.

DEVELOPED BY:

DATE: 02/15/2018

OFFICE: AJV-5422

NAME: PETER GUIMOND

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZLA
ATC FACILITY: SOCAL APP CON
OTHER: