

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CAPOB

**STATE:** CA

**COUNTRY:** US

**ICAO REGION CODE:** K2

**LATITUDE/LONGITUDE:** 335823.49N/1183528.13W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** ESTABLISH

**FIX USE:**  
**USE TYPE**  
IAP

**USE TITLE**  
RNAV (GPS) RWY 21

**FAC**

**PAT**

**AIRPORT IDENT**  
KSMO

**CITY**  
SANTA MONICA

**STATE**  
CA (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

**DATE OF REVISION:** 04/27/2017

**DEVELOPED BY:**

**DATE:** 01/17/2017

**OFFICE:** AJV-5423

**NAME:** THOMAS KIRKPATRICK

**APPROVED BY:**

**DATE:**

**OFFICE:** AJV-5420

**NAME:** JULIE MORGAN

**SIGNATURE:**

**DISTRIBUTION:**

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: DARTS STATE: CA COUNTRY: US ICAO REGION CODE: K2  
 LATITUDE/LONGITUDE: 340921.77N/1181610.54W 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	MRA	MAA
1	VAN NUYS	VNY	VOR/DME	L	095.00	110.00	11.77	11.77	5000	17500
2	SEAL BEACH	SLI	VORTAC	L	319.41	334.41	24.77	24.77	6000	17500
3	SANTA MONICA	SMO	VOR/DME	L	031.83	046.83	12.78	12.78	5000	17500
4	PARADISE	PDZ	VORTAC	H	276.32	291.32	39.53	39.53	5000	17500

HOLDING: HOLDING TYPE OF ACTION: MODIFY

## 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	NW	SLI	VORTAC	319.41	139.41	L		10	9000	13000	13	13
2	W	VNY	VOR/DME	095.00	095.00	R	1		6600	7100	9	9
3	W	WP	WP	288.00	108.00	R		5	5000	6000	6	6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	342240.90N/1181034.80W	6760	6A
2	230	AAO	341609.00N/1181424.00W	5276	4E
2	310	AAO	341609.00N/1181424.00W	5276	4E
3	175	AAO	341527.38N/1181356.48W	4640	2C
3	200	AAO	341527.38N/1181356.48W	4640	2C

## PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	357
2	310	271
2	230	139
3	200	280
3	175	280

## REASON FOR NONSTANDARD HOLDING:

PAT 1 AVOID OUTBOUND TRAFFIC PATTERN ATC REQUEST

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	TAKE-OFF MINIMUMS	KVNY	VAN NUYS	CA (US)
3	RNAV (GPS) Z RWY 3	KSMO	SANTA MONICA	CA (US)

## REMARKS:

VAN NUYS (FAC 1) AND SEAL BEACH (FAC 2) USED TO ESTABLISH FIX COORDINATES  
 PATTERN 1, 10 DME LEGS LENGTH BY ATC REQUEST. PATTERN EVALUATED WITH TEMPLATE 13 TO ENSURE 10 DME COVERAGE.  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 PAT 2 230K OBSTACLE LOCATED 11944 FT INTO SECONDARY AREA - PRIMARY EQUIVALENT VALUE 4285.  
 DO NOT CHART FIX MAKE-UP FROM FAC 4 PARADISE (PDZ) ON ENROUTE LOW.  
 CONTROLLING OBSTACLE FOR PAT 3 LOCATED 998 FT INTO SECONDARY AREA, EQUIVALENT ELEVATION IS 3643 FT.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKE-OFF MINIMUMS	1, 2		KBUR	BURBANK	CA (US)
DP	ANAHEIM	1, 2		KFUL	FULLERTON	CA (US)
DP	ANAHEIM	1, 2		KLGB	LONG BEACH	CA (US)
DP	ANAHEIM	1, 2		KSNA	SANTA ANA	CA (US)
DP	CHOII (RNAV)			KSMO	SANTA MONICA	CA (US)
DP	SANTA MONICA (RNAV)			KSMO	SANTA MONICA	CA (US)
DP	TAKE-OFF MINIMUMS	1, 3	2	KVNY	VAN NUYS	CA (US)
EN ROUTE	V186	1, 2				(US)
EN ROUTE	V459	1, 2				(US)
EN ROUTE	V597	1, 2				(US)
IAP	VOR/DME OR GPS-B	1, 2, 3		KEMT	EL MONTE	CA (US)
IAP	RNAV (RNP) Z RWY 24R			KLAX	LOS ANGELES	CA (US)
IAP	RNAV (GPS) RWY 21			KSMO	SANTA MONICA	CA (US)
IAP	RNAV (GPS) Z RWY 3		3	KSMO	SANTA MONICA	CA (US)
IAP	VOR-A	1, 3		KSMO	SANTA MONICA	CA (US)
STAR	FERNANDO	1, 2, 3, 4		KBUR	BURBANK	CA (US)
STAR	KIMMO	1, 2	1	KLAX	LOS ANGELES	CA (US)
STAR	KIMMO	1, 2	1	KSMO	SANTA MONICA	CA (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 11

**DATE OF REVISION:** 04/27/2017

**REASON FOR REVISION:**

CHANGED PAT 3 WP HOLDING: DELETED LEG TIME 1, ADDED 5 TO LENGTH DME.

ADDED CONTROLLING OBSTACLE/PRECIPITOUS TERRRAIN ADDITION FOR PAT 3 RESTRICTED TO 175 KNOTS.

DELETED "CLIMB IN HOLD FOR PATTERN 3 LIMITED TO 175 KTS" IN HOLDING RESTRICTIONS.

ADDED IN REMARKS "CONTROLLING OBSTACLE FOR PAT 3 LOCATED 998 FT INTO SECONDARY AREA, EQUIVALENT ELEVATION IS 3643 FT."

**DEVELOPED BY:**            **DATE:** 01/24/2017

**OFFICE:** AJV-5412

**NAME:** GEORGETTE BARNETT

**APPROVED BY:**            **DATE:**

**OFFICE:** AJV-5420

**NAME:** JULIE MORGAN

**SIGNATURE:**

**DISTRIBUTION:**

**NFDC**

**FPO:** WST

**ARTCC:** ZLA

**ATC FACILITY:** SOCAL APP CON, LAX

**OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** MIPT E

**STATE:** CA

**COUNTRY:** US

**ICAO REGION CODE:** K2

**LATITUDE/LONGITUDE:** 340330.55N/1182402.84W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** MODIFY

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

**USE TYPE**  
IAP

**USE TITLE**  
RNAV (GPS) RWY 21

**FAC**

**PAT**

**AIRPORT IDENT**  
KSMO

**CITY**  
SANTA MONICA

**STATE**  
CA (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1

**DATE OF REVISION:** 02/01/2018

**REASON FOR REVISION:**

1. FIX MOVED 1386 FT NORTH.

**DEVELOPED BY:**

**DATE:** 08/17/2017

**OFFICE:** AJV-5422

**NAME:** JIMMY HUGHES

**APPROVED BY:**

**DATE:**

**OFFICE:** AJV-5420

**NAME:** JULIE MORGAN

**SIGNATURE:**

**DISTRIBUTION:**

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

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** MOVVE

**STATE:** CA

**COUNTRY:** US

**ICAO REGION CODE:** K2

**LATITUDE/LONGITUDE:** 340629.04N/1182031.14W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** MODIFY

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

**USE TYPE**  
IAP

**USE TITLE**  
RNAV (GPS) RWY 21

**FAC**

**PAT**

**AIRPORT IDENT**  
KSMO

**CITY**  
SANTA MONICA

**STATE**  
CA (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1

**DATE OF REVISION:** 02/01/2018

**REASON FOR REVISION:**

1. MOVED 2316 FT NW

**DEVELOPED BY:**

**DATE:** 08/17/2017

**OFFICE:** AJV-5422

**NAME:** JIMMY HUGHES

**APPROVED BY:**

**DATE:**

**OFFICE:** AJV-5420

**NAME:** JULIE MORGAN

**SIGNATURE:**

**DISTRIBUTION:**

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: SADDE STATE: CA COUNTRY: US ICAO REGION CODE: K2  
 LATITUDE/LONGITUDE: 340220.38N/1184552.68W 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	MRA	MAA
1	FILLMORE	FIM	VORTAC	L	148.00	163.00	19.89	19.89	5000	17500
2	LOS ANGELES	LAX	VORTAC	H	276.00	291.00	17.76	17.76	5000	17500
3	VENTURA	VTU	VOR/DME	L	092.71	107.71	14.91	14.91	5000	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	NW	FIM	VORTAC	148.00	148.00	L	1		5000 14000	6 11
2	NW		WP	328.00	148.00	L		5	5000 14000	6 11

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	340432.94N/1183931.74W	3005	2C
1	310	AAO	340721.00N/1185703.00W	3199	4E
2	200	AAO	340432.94N/1183931.74W	3005	2C
2	310	AAO	340721.00N/1185703.00W	3199	4E

## PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	310	230
1	200	220
2	310	230
2	200	220

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST  
 PAT 2 ATC REQUEST

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR-A	KSMO	SANTA MONICA	CA (US)
2	RNAV (GPS) RWY 21	KSMO	SANTA MONICA	CA (US)

## REMARKS:

FILLMORE (FAC 1) AND LOS ANGELES (FAC 2) USED TO ESTABLISH FIX COORDINATES  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ANAHEIM	1, 2, 3		KFUL	FULLERTON	CA (US)
DP	ANAHEIM	1, 2, 3		KLGB	LONG BEACH	CA (US)
DP	ANAHEIM	1, 2, 3		KSNA	SANTA ANA	CA (US)
DP	TOPANGA	2		KSMO	SANTA MONICA	CA (US)
EN ROUTE	V107	1, 2, 3				(US)
EN ROUTE	V299	1, 2, 3				(US)
IAP	RNAV (GPS) Y RWY 26			KCMA	CAMARILLO	CA (US)
IAP	RNAV (GPS) Z RWY 26			KCMA	CAMARILLO	CA (US)
IAP	RNAV (GPS) RWY 25			KOXR	OXNARD	CA (US)
IAP	RNAV (GPS) RWY 21		2	KSMO	SANTA MONICA	CA (US)
IAP	VOR-A	1, 2, 3	1	KSMO	SANTA MONICA	CA (US)
STAR	TANDY	1, 2, 3		KLGB	LONG BEACH	CA (US)
STAR	LEENA	1, 2, 3		KLAX	LOS ANGELES	CA (US)
STAR	SADDE	1, 2, 3		KLAX	LOS ANGELES	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 21 DATE OF REVISION: 02/01/2018

## REASON FOR REVISION:

1. REMOVED PEEER (RNAV) DP FROM FIX USE.

**DEVELOPED BY:**      **DATE:** 09/25/2017      **OFFICE:** AJV-5422      **NAME:** JIMMY HUGHES

**APPROVED BY:**      **DATE:**      **OFFICE:** AJV-5420      **NAME:** JULIE MORGAN

**SIGNATURE:**

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