

# RADIO FIX AND HOLDING DATA RECORD

NAME: CLOWD STATE: CA COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 335410.09N/1155621.86W 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	MRA	MAA
1	TWENTYNINE PALMS	TNP	VORTAC	L	199.03	214.03	15.13	15.13	6800	19300
2	PALM SPRINGS	PSP	VORTAC	L	072.28	085.28	24.57	24.57	8000	19600
3	THERMAL	TRM	VORTAC	H	020.81	033.81	19.82	19.82	8000	45000

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING ALTITUDES MIN DME	MAX	TEMPLATES MIN	MAX
1	E	PSP	VORTAC	072.28	252.28	R	1	8000	14000	9	11

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	335209.50N/1160448.60W	5660	1A

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
TWENTYNINE PALMS (FAC 1) AND PALM SPRINGS (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MECCA	3		KTRM	PALM SPRINGS	CA (US)
EN ROUTE	V208-V514	1, 2				CA (US)
IAP	RNAV (RNP) Y RWY 31L			KPSP	PALM SPRINGS	CA (US)
STAR	CLOWD	1, 2, 3		KPSP	PALM SPRINGS	CA (US)
STAR	SBONO	1, 2, 3		KPSP	PALM SPRINGS	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 DATE OF REVISION: 09/15/2016

## REASON FOR REVISION:

ADDED MECCA (SID) TO FIX USE.  
ADDED DISTANCE FROM FACILITY FOR FAC 1,2,3.  
UPDATE FIX USE FORMAT.

DEVELOPED BY: DATE: 03/30/2016 OFFICE: AJV-5431 NAME: ROBERT GRIM

APPROVED BY: DATE: OFFICE: AJV-5430 NAME: LONNIE EVERHART

*Digitally signed by*  
SIGNATURE: **BEV L BORDY**

Jul 19, 2016

DISTRIBUTION: NFDC  
FPO: WST  
ARTCC: ZLA  
ATC FACILITY: PSP APP CON  
OTHER:

QUALITY  
3  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: CONES STATE: CA COUNTRY: US ICAO REGION CODE: K2  
 LATITUDE/LONGITUDE: 334817.06N/1160106.40W 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	THERMAL	TRM	VORTAC	H	020.81	033.81	12.74	12.74		7000	17500
2	PALM SPRINGS	PSP	VORTAC	L	087.65	100.65	20.93	20.93		8000	17500

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPACE	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	AAO	340023.00N/1161452.00W	6013	6A

## REMARKS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 8000. PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING ABOVE 14000 OVER KANE WEST MOA.  
 THERMAL (FAC 1) AND PALM SPRINGS (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MECCA	1		KTRM	PALM SPRINGS	CA (US)
EN ROUTE	V16-372	1, 2				(US)
EN ROUTE	V208-514	1, 2				(US)
IAP	RNAV (RNP) Y RWY 31L			KPSP	PALM SPRINGS	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 DATE OF REVISION: 09/15/2016

## REASON FOR REVISION:

ADDED MECCA (SID) TO FIX USE.  
 ADDED INTERSECTION FIX MAKEUP IN REMARKS.  
 UPDATED DIX USE FORMAT.  
 ADDED DISTANCE TO FACILITY FAC 1,2.

DEVELOPED BY: DATE: 04/01/2016 OFFICE: AJV-5431 NAME: ROBERT GRIM

APPROVED BY: DATE: OFFICE: AJV-5430 NAME: LONNIE EVERHART

SIGNATURE: *Digitally signed by*  
**BEV L BORDY**

DISTRIBUTION: NFDC Jul 19, 2016  
 FPO: WST  
 ARTCC: ZLA  
 ATC FACILITY: PSP APP CON  
 OTHER:

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CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: MECCA

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 333211.47N/1160540.11W

TYPE: 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	THERMAL	TRM	VORTAC	H	135.99	148.99	6.40	6.40		2200	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MECCA			KTRM	PALM SPRINGS	CA (US)
DP	TAKEOFF MINIMUMS			KTRM	PALM SPRINGS	CA (US)
IAP	VOR/DME RWY 30			KTRM	PALM SPRINGS	CA (US)

REQUIRED CHARTING: DP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 09/15/2016

## REASON FOR REVISION:

ADDED TAKEOFF MINIMUMS (KTRM) TO FIX USE.

ADDED MECCA SID (KTRM) TO FIX USE.

CHANGED TRUE BEARING FROM THERMAL (TRM) VORTAC TO MECCA FROM 149 TO 148.99.

DEVELOPED BY:

DATE: 03/28/2016

OFFICE: AJV-5431

NAME: ROBERT GRIM

APPROVED BY:

DATE:

OFFICE: AJV-5431

NAME: LONNIE EVERHART

SIGNATURE: *Digitally signed by*  
**BEV L BORDY**

DISTRIBUTION:

NFDC  
FPO: WST  
ARTCC: ZLA  
ATC FACILITY: PSP APP CON  
OTHER:  
Jul 19, 2016

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# RADIO FIX AND HOLDING DATA RECORD

NAME: PALM SPRINGS VORTAC STATE: CA COUNTRY: US ICAO REGION CODE: K2  
 LATITUDE/LONGITUDE: 335212.05N/1162547.22W TYPE:

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	PALM SPRINGS	PSP	VORTAC	L							26000

## FIX RESTRICTIONS:

MCA V16-370-372 11800 WESTBOUND  
 MCA V137 11200 NORTHWEST BOUND  
 MCA V388 6300 WESTBOUND  
 MCA V386 7600 NORTHWEST BOUND  
 MCA V370 6200 NORTHEAST BOUND  
 MCA T306 11800 WESTBOUND

## 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	PSP	VORTAC	123.98	303.98	R	1-1 1/2		4500	17500	5	16
2	NE	PSP	VORTAC	053.03	233.03	R	1-1 1/2		8000	17500	8	16
3	SE	PSP	VORTAC	123.98	303.98	L	1		3400	14000	4	11

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	200' AAO (OBS-30596)	335736.00N/1162103.00W	4118	4E
1	310	200' AAO	340157.00N/1162100.00W	5683	4E
2	230	200' AAO (OBS-30598)	340030.00N/1161500.00W	6013	4E
3	200	200' AAO (OBS-30600)	335603.00N/1162106.00W	3209	4E

## PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	310	375
1	200	103
2	230	375
3	200	390

## REASON FOR NONSTANDARD HOLDING:

PAT 3 AIR TRAFFIC REQUEST

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	CATHEDRAL	KPSP	PALM SPRINGS	CA (US)

## REMARKS:

PATTERN 2 AT ATC REQUEST.  
 PAT 1 OBSTACLE LOCATED 1.72 NM INTO SECONDARY  
 PAT 3 OBSTACLE LOCATED 1.95 NM INTO SECONDARY; PATTERN 3 EVALUATED FOR RNAV HOLDING.  
 PRECIPITIOUS TERRAIN EVALUATION COMPLETED

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BUCKEYE			KPHX	PHOENIX	AZ (US)
DP	CATHEDRAL		1	KPSP	PALM SPRINGS	CA (US)
DP	TAKE-OFF MINIMUMS			KPSP	PALM SPRINGS	CA (US)
DP	MECCA			KTRM	PALM SPRINGS	CA (US)
DP	EL TORO			KSNA	SANTA ANA	CA (US)
DP	MUSEL			KSNA	SANTA ANA	CA (US)
EN ROUTE	J212					(US)
EN ROUTE	T306					(US)
EN ROUTE	V137		1			(US)
EN ROUTE	V370					(US)
EN ROUTE	V372					(US)
EN ROUTE	V386					(US)
EN ROUTE	V388					(US)
EN ROUTE	V16					CA (US)
IAP	RNAV (RNP) Y RWY 13L			KPSP	PALM SPRINGS	CA (US)
IAP	RNAV (RNP) Y RWY 13R			KPSP	PALM SPRINGS	CA (US)
IAP	RNAV (RNP) Z RWY 13R			KPSP	PALM SPRINGS	CA (US)
IAP	VOR OR GPS-B		3	KPSP	PALM SPRINGS	CA (US)
IAP	RNAV (GPS) RWY 28 (DME ONLY)		3	KUDD	PALM SPRINGS	CA (US)

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IAP	VOR-C	3	KUDD	PALM SPRINGS	CA (US)
STAR	KAYOH		KLGB	LONG BEACH	CA (US)
STAR	KEFFR (RNAV)		KLGB	LONG BEACH	CA (US)
STAR	SETER		KONT	ONTARIO	CA (US)
STAR	CLOWD		KPSP	PALM SPRINGS	CA (US)
STAR	SBONO		KPSP	PALM SPRINGS	CA (US)
STAR	KEFFR (RNAV)		KSNA	SANTA ANA	CA (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 15

**DATE OF REVISION:** 09/15/2016

**REASON FOR REVISION:**

ADDED MECCA (SID) TO FIX USE.

ADDED EL TORO (SID) TO FIX USE.

DELETED VOR-C (KUDD) FROM FIX USE (DUPLICATE ENTRY).

**DEVELOPED BY:**      **DATE:** 04/01/2016      **OFFICE:** AJV-5431      **NAME:** ROBERT GRIM

**APPROVED BY:**      **DATE:**      **OFFICE:** AJV-5430      **NAME:** LONNIE EVERHART

**SIGNATURE:** *Digitally signed by*

**BEV L BORDY**

**DISTRIBUTION:**      **NFDC**      Jul 19, 2016  
**FPO:** WST  
**ARTCC:** ZLA  
**ATC FACILITY:** PSP APP CON  
**OTHER:**

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3  
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# RADIO FIX AND HOLDING DATA RECORD

NAME: TWENTYNINE PALMS VORTAC STATE: CA COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 340644.04N/1154611.66W TYPE:

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	MRA	MAA
1	TWENTYNINE PALMS	TNP	VORTAC	L						45000

## FIX RESTRICTIONS:

MCA V514-538 10200 NORTHEAST BOUND

## 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	E	TNP	VORTAC	075.35	255.35	L	1-1 1/2	4700 17500	5 16

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	340231.40N/1154046.80W	3600	6C
1	310	AAO	341323.80N/1154131.00W	4826	6C

## REASON FOR NONSTANDARD HOLDING:

PAT 1 R-2501E

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES	KTNP	TWENTYNINE PALMS	CA (US)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.  
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER R-2501E FROM 14000 TO 17500.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CATHEDRAL			KPSP	PALM SPRINGS	CA (US)
DP	MECCA			KTRM	PALM SPRINGS	CA (US)
DP	TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES		1	KTNP	TWENTYNINE PALMS	CA (US)
DP	BOACH (RNAV)			KLAS	LAS VEGAS	NV (US)
DP	MCCARRAN			KLAS	LAS VEGAS	NV (US)
EN ROUTE	J10					(US)
EN ROUTE	J104					(US)
EN ROUTE	J231					(US)
EN ROUTE	J4					(US)
EN ROUTE	V208					(US)
EN ROUTE	V264		1			(US)
EN ROUTE	V370					(US)
EN ROUTE	V514					(US)
EN ROUTE	V538					(US)
IAP	RNAV (GPS) RWY 26			KTNP	TWENTYNINE PALMS	CA (US)
IAP	VOR RWY 26		1	KTNP	TWENTYNINE PALMS	CA (US)
STAR	BASET			KLAX	LOS ANGELES	CA (US)
STAR	DOWNE			KLAX	LOS ANGELES	CA (US)
STAR	REDEYE			KLAX	LOS ANGELES	CA (US)
STAR	SEAVU			KLAX	LOS ANGELES	CA (US)
STAR	CLOWD			KPSP	PALM SPRINGS	CA (US)
STAR	SBONO			KPSP	PALM SPRINGS	CA (US)
STAR	BARET			KSAN	SAN DIEGO	CA (US)
STAR	LYNDI (RNAV)			KSAN	SAN DIEGO	CA (US)
STAR	JOMIX (RNAV)			KHND	LAS VEGAS	NV (US)
STAR	CLARR			KLAS	LAS VEGAS	NV (US)
STAR	KEPEC (RNAV)			KLAS	LAS VEGAS	NV (US)

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

COMPULSORY REPORTING POINT: NO



RECORD REVISION NUMBER: 13

DATE OF REVISION: 09/15/2016

## REASON FOR REVISION:

ADDED MECCA (SID) TO FIX USE.  
DELETED WRGLY (RSID) FROM FIX USE (NO LONGER USED).

DEVELOPED BY:      DATE: 04/01/2016      OFFICE: AJV-5431      NAME: ROBERT GRIM

APPROVED BY:      DATE:      OFFICE: AJV-5430      NAME: LONNIE EVERHART

SIGNATURE: *Digitally signed by*  
**BEV L BORDY**DISTRIBUTION:      NFDC      Jul 19, 2016  
FPO: WST  
ARTCC: ZLA  
ATC FACILITY: PHX APP CON, PSP APP CON  
OTHER: ZAB

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