

# RADIO FIX AND HOLDING DATA RECORD

NAME: EL PASO VORTAC STATE: TX COUNTRY: US ICAO REGION CODE: K4  
 LATITUDE/LONGITUDE: 314857.28N/1061654.78W 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	EL PASO	ELP	VORTAC	H							45000

HOLDING: HOLDING TYPE OF ACTION: MODIFY

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	E	ELP	VORTAC	081.48	261.48	L	1		6900	14000	8	10
2	E		WP	081.48	261.48	L		7	6900	14000	9	11
3	E	ELP	VORTAC	095.94	275.94	L	1		7500	9000	14	15

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	314829.33N/1055956.20W	5727	4E
1	310	AAO	315233.00N/1055806.00W	5830	4E
2	230	AAO	314829.33N/1055956.20W	5727	4E
2	310	AAO	315233.00N/1055806.00W	5830	4E
3	310	TOWER (48-000642)	314818.38N/1062859.53W	6011	5D

## PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
3	310	100

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST.  
 PAT 2 ATC REQUEST.  
 PAT 3 TO AVOID RESTRICTED AIRSPACE.

## HOLDING RESTRICTIONS:

PRIOR COORDINATION REQUIRED WITH ATC WHEN HOLDING OVER MEXICO OR JOINT USE R-5103A.  
 PORTIONS OF PROTECTED AIRSPACE OVERLIES MEXICO AND JOINT USE R-5103A.  
 HOLDING LIMITED TO ESTABLISHED PATTERNS.

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	LOC/DME RWY 4	KELP	EL PASO	TX (US)
1	RADAR-1	KELP	EL PASO	TX (US)
2	RNAV (GPS) X RWY 4	KELP	EL PASO	TX (US)
3	TAKEOFF MINIMUMS	KBIF	FT BLISS/EL PASO	TX (US)

## REMARKS:

PAT 3 CONTROLLING OBSTACLE LOCATED IN SECONDARY PRIMARY EQUIVALENT 5364 FT.  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 FACILITY MAG VAR E12/1965.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKEOFF MINIMUMS			KELP	EL PASO	TX (US)
DP	TAKEOFF MINIMUMS		3	KBIF	FT BLISS/EL PASO	TX (US)
EN ROUTE	J141					(US)
EN ROUTE	J183					(US)
EN ROUTE	J2					(US)
EN ROUTE	J26					(US)
EN ROUTE	J50					(US)
EN ROUTE	J86					(US)
EN ROUTE	Q13					(US)
EN ROUTE	Q4					(US)
EN ROUTE	T306					(US)
EN ROUTE	V16					(US)
EN ROUTE	V198					(US)
EN ROUTE	V222					(US)
EN ROUTE	V280					(US)
EN ROUTE	V66					(US)
IAP	HI-VOR OR TACAN RWY 26L			KELP	EL PASO	TX (US)
IAP	ILS OR LOC RWY 22			KELP	EL PASO	TX (US)
IAP	LOC/DME RWY 4		1	KELP	EL PASO	TX (US)
IAP	RADAR-1		1	KELP	EL PASO	TX (US)
IAP	RNAV (GPS) X RWY 4		2	KELP	EL PASO	TX (US)
IAP	VOR RWY 26L			KELP	EL PASO	TX (US)
IAP	VOR OR TACAN RWY 22			KBIF	FORT BLISS/EL PASO/	TX (US)
IAP	RADAR-1			KBIF	FT BLISS/EL PASO	TX (US)

STAR                      ZONNA (RNAV)                      KTUS                      TUCSON                      AZ (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:** 14

**DATE OF REVISION:** 12/29/2022

**REASON FOR REVISION:**

1. REMOVED PATTERN 1 FROM KELP ILS OR LOC RWY 22 FIX USE.
2. REMOVED KELP RNAV (GPS) Y RWY 22 AND ASSOCIATIONS FROM FIX USE.
3. CHANGED KBIF VOR OR TACAN RWY 21 TO VOR OR TACAN RWY 22 IN FIX USE.
4. REMOVED UNPLANNED HOLDING AND ASSOCIATED RESTRICTION.
5. UPDATED FIX USE V-198 AND V-222 TO V198 AND V222.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

**NAME:** JOHN KEEFER

**APPROVED BY:**

**DATE:** 12/29/2022

**OFFICE:** AJV-A430

**NAME:** CASIMIR TABAKA

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: NEWMAN VORTAC

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 315706.43N/1061620.85W

TYPE:

AIRSPACE DOCKET: 22-ASW-16

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	NEWMAN	EWM	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	EWM	VORTAC	029.63	209.63	R	1	6300 10000	8 9
2	NE	EWM	VORTAC	029.63	209.63	R	1	8000 10000	8 9

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	320412.00N/1060400.00W	5151	4E
2	310	48-038150 (AAO)	315410.16N/1062936.99W	7390	1A

## HOLDING RESTRICTIONS:

PRIOR COORDINATION REQUIRED WITH ATC WHEN HOLDING OVER R-5103A/B, R-5107A/K, AND MEXICO AIRSPACE.  
PATTERN 1 AND 2 PROTECTED AIRSPACE OVERLIES R-5103A/B AND R-5107A/K.

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	VOR OR TACAN RWY 22	KBIF	FORT BLISS/EL PASO/	TX (US)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

MAGVAR E12/1965.

PAT 2 CONTROLLING OBSTACLE LOCATED 6911 FT INTO SECONDARY, PRIMARY EQUIVALENT ALT 6608 FT.

PAT 1 USED FOR HOLD-IN-LIEU, PAT 2 USED FOR MISSED APPROACH CLIMB-IN-HOLD.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J4					(US)
EN ROUTE	J66					(US)
EN ROUTE	Q180					(US)
EN ROUTE	Q2					(US)
EN ROUTE	T317					(US)
EN ROUTE	V560					(US)
EN ROUTE	V611					(US)
EN ROUTE	V94					(US)
IAP	ILS OR LOC RWY 30 (ALT MISSED)			KLRU	LAS CRUCES	NM (US)
IAP	HI-VOR OR TACAN RWY 26L			KELP	EL PASO	TX (US)
IAP	ILS OR LOC RWY 22			KELP	EL PASO	TX (US)
IAP	VOR RWY 26L			KELP	EL PASO	TX (US)
IAP	VOR OR TACAN RWY 22		1, 2	KBIF	FORT BLISS/EL PASO/	TX (US)
STAR	ZONNA (RNAV)			KTUS	TUCSON	AZ (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15

DATE OF REVISION: 10/05/2023

## REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 22-ASW-16.
2. EWM CLASS CHANGED FROM "L" TO "VL".
3. DELETED J184 AND ADDED Q180 IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 10/05/2023

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

NAME: SAN SIMON VORTAC

STATE: AZ

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 321609.28N/1091547.12W

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	SAN SIMON	SSO	VORTAC	VH						45000

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	E		WP	094.10	274.10	R		7	10000 14000	10 11

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	322218.00N/1090306.00W	6595	4E

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SAN SIMON (RNAV) (OBSTACLE)			KCFT	CLIFTON/MORENCI	AZ (US)
DP	SAFFORD (RNAV) (OBSTACLE)			KSAD	SAFFORD	AZ (US)
DP	TUSCON			KTUS	TUCSON	AZ (US)
DP	WLDKT (RNAV)			KTUS	TUCSON	AZ (US)
DP	COCHISE (OBSTACLE)			P33	WILLCOX	AZ (US)
DP	ATKNN (RNAV)			KELP	EL PASO	TX (US)
EN ROUTE	J104					(US)
EN ROUTE	J166					(US)
EN ROUTE	J4					(US)
EN ROUTE	J50					(US)
EN ROUTE	T310					(US)
EN ROUTE	V16					(US)
EN ROUTE	V198					(US)
EN ROUTE	V202					(US)
EN ROUTE	V94					(US)
IAP	RNAV (GPS) A			KCFT	CLIFTON/MORENCI	AZ (US)
IAP	ILS OR LOC RWY 26			KFHU	FORT HUACHUCA SIERRA VISTA	AZ (US)
IAP	VOR RWY 26			KFHU	FORT HUACHUCA SIERRA VISTA	AZ (US)
IAP	RNAV (GPS) RWY 12		1	KSAD	SAFFORD	AZ (US)
IAP	RNAV (GPS) RWY 12			KSAD	SAFFORD	AZ (US)
IAP	RNAV (GPS) RWY 30			KSAD	SAFFORD	AZ (US)
IAP	RNAV (GPS) RWY 21			P33	WILLCOX	AZ (US)
STAR	SUNSS			KCHD	CHANDLER	AZ (US)
STAR	SUNSS			P19	CHANDLER	AZ (US)
STAR	SUNSS			KGEU	GLENDALE	AZ (US)
STAR	SUNSS			KGYR	GOODYEAR	AZ (US)
STAR	SUNSS			KFFZ	MESA	AZ (US)
STAR	SUNSS			KDVT	PHOENIX	AZ (US)
STAR	SUNSS			KIWA	PHOENIX	AZ (US)
STAR	SUNSS			KPHX	PHOENIX	AZ (US)
STAR	SUNSS			KSDL	SCOTTSDALE	AZ (US)
STAR	ZONNA (RNAV)			KTUS	TUCSON	AZ (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: 3

DATE OF REVISION: 08/10/2023

## REASON FOR REVISION:

CHANGED P33 TAKEOFF TO READ COCHISE (OBSTACLE).  
ADDED CONTROLLER LOW AND CONTROLLER HIGH TO REQUIRED CHARTING.  
PAT 1 CONTROLLING OBSTACLE CHANGED FROM 6785 AAO TO 6595 AAO.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: NICHOLAS PRATER

**APPROVED BY:**

**DATE:** 08/10/2023

**OFFICE:** AJV-A422

**NAME:** RAKE MCGRAW

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** TUCSON VORTAC      **STATE:** AZ      **COUNTRY:** US      **ICAO REGION CODE:** K2

**LATITUDE/LONGITUDE:** 320542.73N/1105453.48W      **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	TUCSON	TUS	VORTAC	VH						45000

**FIX RESTRICTIONS:**

MCA V395 9000 SOUTHBOUND  
MCA V393 9000 SOUTHBOUND

**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	TUS	VORTAC	308.00	128.00	R	1	6500 45000	8 29

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	321640.80N/1110845.50W	4887	6A
1	310	AAO	321640.80N/1110845.50W	4887	6A

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
FACILITY MAGVAR: 12 DEGREES EAST (1995).

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BNYRD (RNAV)			KCHD	CHANDLER	AZ (US)
DP	BNYRD (RNAV)			KGEU	GLENDALE	AZ (US)
DP	BNYRD (RNAV)			KGYR	GOODYEAR	AZ (US)
DP	TAKE-OFF MINIMUMS			KAVQ	MARANA	AZ (US)
DP	NOGALES			KOLS	NOGALES	AZ (US)
DP	TAKE-OFF MINIMUMS			KOLS	NOGALES	AZ (US)
DP	BNYRD (RNAV)			KDVT	PHOENIX	AZ (US)
DP	BNYRD (RNAV)			KIWA	PHOENIX	AZ (US)
DP	STANFIELD			KPHX	PHOENIX	AZ (US)
DP	STRRM (RNAV)			KPHX	PHOENIX	AZ (US)
DP	BNYRD (RNAV)			KSDL	SCOTTSDALE	AZ (US)
DP	SCOTTSDALE			KSDL	SCOTTSDALE	AZ (US)
DP	DAVIS MONTHAN			KDMA	TUCSON	AZ (US)
DP	TAKEOFF MINIMUMS AND OBSTACLE DP		1	KTUS	TUCSON	AZ (US)
DP	TUCSON			KTUS	TUCSON	AZ (US)
DP	WLDKT (RNAV)			KTUS	TUCSON	AZ (US)
EN ROUTE	J104					(US)
EN ROUTE	J11					(US)
EN ROUTE	J2					(US)
EN ROUTE	J92					(US)
EN ROUTE	T306					(US)
EN ROUTE	T310					(US)
EN ROUTE	V105					(US)
EN ROUTE	V16					(US)
EN ROUTE	V393					(US)
EN ROUTE	V395					(US)
EN ROUTE	V66					(US)
IAP	RNAV (GPS) RWY 8			KFHU	FORT HUACHUCA/SIERRA VIST	AZ (US)
IAP	VOR/DME OR GPS-B			KOLS	NOGALES	AZ (US)
IAP	ILS OR LOC RWY 30C			KIWA	PHOENIX	AZ (US)
IAP	VOR OR TACAN RWY 30C			KIWA	PHOENIX	AZ (US)
IAP	RNAV (GPS)-E			KAVQ	TUCSON	AZ (US)
IAP	ILS OR LOC RWY 6R			KRYN	TUCSON	AZ (US)
IAP	NDB RWY 06R			KRYN	TUCSON	AZ (US)
IAP	RNAV (GPS) RWY 06R			KRYN	TUCSON	AZ (US)
IAP	ILS OR LOC RWY 12			KTUS	TUCSON	AZ (US)
IAP	RNAV (GPS) Z RWY 12			KTUS	TUCSON	AZ (US)
IAP	RNAV (GPS) Z RWY 30			KTUS	TUCSON	AZ (US)
IAP	VOR OR TACAN RWY 12			KTUS	TUCSON	AZ (US)
IAP	VOR OR TACAN RWY 30			KTUS	TUCSON	AZ (US)
STAR	SUNSS			KCHD	CHANDLER	AZ (US)
STAR	SUNSS			P19	CHANDLER	AZ (US)
STAR	SUNSS			KGEU	GLENDALE	AZ (US)
STAR	SUNSS			KGYR	GOODYEAR	AZ (US)

STAR	SUNSS	KFFZ	MESA	AZ (US)
STAR	SUNSS	KDVT	PHOENIX	AZ (US)
STAR	SUNSS	KIWA	PHOENIX	AZ (US)
STAR	SUNSS	KPHX	PHOENIX	AZ (US)
STAR	SUNSS	KSDL	SCOTTSDALE	AZ (US)
STAR	DINGO	KTUS	TUCSON	AZ (US)
STAR	ZONNA (RNAV)	KTUS	TUCSON	AZ (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 20

**DATE OF REVISION:** 11/30/2023

**REASON FOR REVISION:**  
UPDATED FIX USE FOR KTUS

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

**NAME:** JON NEIDIGH

**APPROVED BY:**

**DATE:** 11/30/2023

**OFFICE:** AJV-A432

**NAME:** CASIMIR TABAKA

**SIGNATURE:**