

# INFORMATION ONLY

## RADIO FIX AND HOLDING DATA RECORD

NAME: ALAMOSA VORTAC

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 372056.97N/1054855.93W

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	MRA FEET	MAA
1	ALAMOSA	ALS	VORTAC	H						45000

### FIX RESTRICTIONS:

MCA V83 10400 SOUTHBOUND  
MCA V210 11200 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	NW	ALS	VORTAC	322.00	142.00	R	1		10000	14000	9	10
2	SE	ALS	VORTAC	121.38	301.38	R	1-1 1/2		10700	17500	9	16
3	SE		WP	122.38	302.38	R		7	10700	17500	10	17
4	NW	ALS	VORTAC	321.11	141.11	R	1-1 1/2		10700	17500	9	16

### CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	371248.00N/1054830.00W	9416	4E
2	230	AAO	371225.00N/1054722.00W	9384	4E
2	310	AAO	371248.00N/1052136.00W	9439	4E
3	230	AAO	371248.00N/1054830.00W	9416	4E
4	230	AAO	371248.00N/1054830.00W	9416	4E
4	310	AAO	370821.00N/1054929.00W	9666	4E

### HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

### PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	TAKE-OFF MINIMUMS	KALS	ALAMOSA	CO (US)
2	TAKE-OFF MINIMUMS	KMVI	MONTE VISTA	CO (US)
4	VOR/DME-B	KALS	ALAMOSA	CO (US)
4	VOR-A	KALS	ALAMOSA	CO (US)

### REMARKS:

PRECIPTIOUS TERRAIN EVALUATION COMPLETED.  
PATTERN 1 CONTROLLING OBSTACLE LIES 4319 FT INTO SECONDARY (PRIMARY EQUIVALENT 8740 MSL).  
PATTERN 4 CONTROLLING OBSTACLE LIES 4319 FT INTO SECONDARY (PRIMARY EQUIVALENT 8740 MSL).  
ASSIGNED FACILITY MAGVAR: 13E (1965).

### FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKE-OFF MINIMUMS		2	KALS	ALAMOSA	CO (US)
DP	ASPEN			KASE	ASPEN	CO (US)
DP	PIKES			KBKF	AURORA	CO (US)
DP	SPRINGS			KCOS	COLORADO SPRINGS	CO (US)
DP	PIKES			KAPA	DENVER	CO (US)
DP	PIKES			KBJC	DENVER	CO (US)
DP	PIKES			KDEN	DENVER	CO (US)
DP	PIKES			KFTG	DENVER	CO (US)
DP	PIKES			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES			KGXY	GREELEY	CO (US)
DP	TAKE-OFF MINIMUMS		2	KMVI	MONTE VISTA	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
DP	ALBUQUERQUE			KABQ	ALBUQUERQUE	NM (US)
EN ROUTE	J102					(US)
EN ROUTE	J110					(US)
EN ROUTE	J13					(US)
EN ROUTE	J206					(US)
EN ROUTE	J44					(US)
EN ROUTE	V210					(US)
EN ROUTE	V368					(US)
EN ROUTE	V484					(US)
EN ROUTE	V83					(US)
IAP	ILS OR LOC RWY 2		1	KALS	ALAMOSA	CO (US)
IAP	RNAV (GPS) RWY 2			KALS	ALAMOSA	CO (US)
IAP	RNAV (GPS) RWY 20			KALS	ALAMOSA	CO (US)
IAP	VOR-A		4	KALS	ALAMOSA	CO (US)
IAP	VOR/DME-B		4	KALS	ALAMOSA	CO (US)
IAP	GPS RWY 20			KMVI	MONTE VISTA	CO (US)
IAP	RNAV (GPS)-B		3	KMVI	MONTE VISTA	CO (US)

QUALITY  
19  
CHECKED

IAP	VOR/DME-A	2	KMVI	MONTE VISTA	CO (US)
STAR	LARKS		KBKF	AURORA	CO (US)
STAR	DEBERRY		KCOS	COLORADO SPRINGS	CO (US)
STAR	LARKS		KAPA	DENVER	CO (US)
STAR	LARKS		KBJC	DENVER	CO (US)
STAR	LARKS		KDEN	DENVER	CO (US)
STAR	LARKS		KFTG	DENVER	CO (US)
STAR	LARKS		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	LARKS		KGXY	GREELEY	CO (US)

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

**COMPULSORY REPORTING POINT:** LOW

**RECORD REVISION NUMBER:** 15

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

**REASON FOR REVISION:**

1. ADDED ASSIGNED FAC MAGVAR TO REMARKS.
2. ADDED PRIMARY EQUIVALENT VALUE TO OBSTACLES IN SECONDARY AREA FOR PAT 1 AND PAT 4.
3. DELETED ST. JOHNS DP AT PHX FROM FIX USE (FACILITY NOT DEPICTED - ONLY MENTIONED AS ATC FILING NOTE).
4. DELETED ATOMK AND JEMEZ DP(S) AT KABQ FROM FIX USE.

**DEVELOPED BY:**                      **DATE:** 10/31/2016                      **OFFICE:** AJV-5422                      **NAME:** PETER GUIMOND

**APPROVED BY:**                      **DATE:**                      **OFFICE:** AJV-5420                      **NAME:** TONY LAWSON

**SIGNATURE:**

**DISTRIBUTION:**    **NFDC**  
                              **FPO:** WST  
                              **ARTCC:** ZDV  
                              **ATC FACILITY:**  
                              **OTHER:**



## RADIO FIX AND HOLDING DATA RECORD

**NAME:** ALBUQUERQUE VORTAC      **STATE:** NM      **COUNTRY:** US      **ICAO REGION CODE:** K2  
**LATITUDE/LONGITUDE:** 350237.66N/1064858.72W      **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	ALBUQUERQUE	ABQ	VORTAC	H							45000

**FIX RESTRICTIONS:**

MCA V68 10000 SOUTHEAST BOUND  
MCA V190 11500 NORTHEAST BOUND  
MCA V12 10700 EASTBOUND

**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	ABQ	VORTAC	257.00	077.00	L	1-1 1/2		8000	29000	8	22
2	W		WP	259.00	079.00	L		7	8000	14000	9	11

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	AAO	350259.50N/1071124.70W	6900	6C
1	230	AAO	350445.00N/1070833.00W	6503	4E
1	310	AAO	350259.50N/1071124.70W	6900	6C
2	230	AAO	350415.00N/1070848.00W	6644	
2	310	AAO	350259.50N/1071124.70W	6900	6C

**REASON FOR NONSTANDARD HOLDING:**

PAT 1 AVOID INBOUND/OUTBOUND TRAFFIC  
PAT 2 ATC REQUEST

**HOLDING RESTRICTIONS:**

UNPLANNED HOLDING NA R-360 CW TO R-110.  
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 8900 R-110 CW TO R-167.  
UNPLANNED HOLDING NA BELOW 10000 R-167 CW TO R-359.

**PROCEDURES REQUIRING CLIMB-IN-HOLD:**

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKEOFF MINIMUMS	KABQ	ALBUQUERQUE	NM (US)
1	LARGO	KABQ	ALBUQUERQUE	NM (US)
1	ALBUQUERQUE	KABQ	ALBUQUERQUE	NM (US)
2	RNAV (GPS) Y RWY 3	KABQ	ALBUQUERQUE	NM (US)

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
HOLDING PATTERN 2 CONTROLLING OBSTRUCTIONS IPDS PROVIDED ACCURACY.  
ASSIGNED FACILITY MAG VAR: 13E 1965.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	FTHLS (RNAV)			KCHD	CHANDLER	AZ (US)
DP	LALUZ (RNAV)			KCHD	CHANDLER	AZ (US)
DP	FTHLS (RNAV)			KGEU	GLENDALE	AZ (US)
DP	LALUZ (RNAV)			KGEU	GLENDALE	AZ (US)
DP	FTHLS (RNAV)			KGYR	GOODYEAR	AZ (US)
DP	LALUZ (RNAV)			KGYR	GOODYEAR	AZ (US)
DP	FTHLS (RNAV)			KDVT	PHOENIX	AZ (US)
DP	LALUZ (RNAV)			KDVT	PHOENIX	AZ (US)
DP	FTHLS (RNAV)			KIWA	PHOENIX	AZ (US)
DP	LALUZ (RNAV)			KIWA	PHOENIX	AZ (US)
DP	FTHLS (RNAV)			KPHX	PHOENIX	AZ (US)
DP	LALUZ (RNAV)			KPHX	PHOENIX	AZ (US)
DP	MAXXO			KPHX	PHOENIX	AZ (US)
DP	ST. JOHNS			KPHX	PHOENIX	AZ (US)
DP	FTHLS (RNAV)			KSDL	SCOTTSDALE	AZ (US)
DP	LALUZ (RNAV)			KSDL	SCOTTSDALE	AZ (US)
DP	SCOTTSDALE			KSDL	SCOTTSDALE	AZ (US)
DP	ADYOS (RNAV)			KABQ	ALBUQUERQUE	NM (US)
DP	ALBUQUERQUE		1	KABQ	ALBUQUERQUE	NM (US)
DP	BOSQE			KABQ	ALBUQUERQUE	NM (US)
DP	DOOKK (RNAV)			KABQ	ALBUQUERQUE	NM (US)
DP	GRZZZ (RNAV)			KABQ	ALBUQUERQUE	NM (US)
DP	JETOK (RNAV)			KABQ	ALBUQUERQUE	NM (US)
DP	LARGO		1	KABQ	ALBUQUERQUE	NM (US)
DP	RDRNR (RNAV)			KABQ	ALBUQUERQUE	NM (US)

QUALITY  
19  
CHECKED

DP	TAKEOFF MINIMUMS	1	KABQ	ALBUQUERQUE	NM (US)
DP	ZIAS		KSAF	SANTA FE	NM (US)
EN ROUTE	J13				(US)
EN ROUTE	J15				(US)
EN ROUTE	J18				(US)
EN ROUTE	J57				(US)
EN ROUTE	J6				(US)
EN ROUTE	J72				(US)
EN ROUTE	J78				(US)
EN ROUTE	V12				(US)
EN ROUTE	V187				(US)
EN ROUTE	V190				(US)
EN ROUTE	V234				(US)
EN ROUTE	V263				(US)
EN ROUTE	V291				(US)
EN ROUTE	V60				(US)
EN ROUTE	V611				(US)
EN ROUTE	V68				(US)
IAP	HI TACAN RWY 8		KABQ	ALBUQUERQUE	NM (US)
IAP	HI-ILS OR LOC RWY 8		KABQ	ALBUQUERQUE	NM (US)
IAP	ILS OR LOC RWY 3	1	KABQ	ALBUQUERQUE	NM (US)
IAP	ILS OR LOC RWY 8	1	KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (GPS) Y RWY 3	2	KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (GPS) Y RWY 8		KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Y RWY 21	2	KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Y RWY 26	2	KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Z RWY 21	2	KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Z RWY 26	2	KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Z RWY 3	2	KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Z RWY 8	2	KABQ	ALBUQUERQUE	NM (US)
IAP	VOR RWY 8	1	KABQ	ALBUQUERQUE	NM (US)
IAP	ILS OR LOC RWY 22		KAEG	ALBUQUERQUE	NM (US)
IAP	RNAV (GPS) RWY 22		KAEG	ALBUQUERQUE	NM (US)
IAP	RNAV (GPS) RWY 4		KAEG	ALBUQUERQUE	NM (US)
STAR	CURLY		KABQ	ALBUQUERQUE	NM (US)
STAR	FRIHO		KABQ	ALBUQUERQUE	NM (US)
STAR	KRKEE (RNAV)		KABQ	ALBUQUERQUE	NM (US)
STAR	LAVAN		KABQ	ALBUQUERQUE	NM (US)
STAR	MIERA		KABQ	ALBUQUERQUE	NM (US)
STAR	CURLY		KAEG	ALBUQUERQUE	NM (US)
STAR	FRIHO		KAEG	ALBUQUERQUE	NM (US)
STAR	LAVAN		KAEG	ALBUQUERQUE	NM (US)
STAR	MIERA		KAEG	ALBUQUERQUE	NM (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 21

**DATE OF REVISION:** 06/22/2017

**REASON FOR REVISION:**

1. UPDATED FIX USE. ADDED BOSQE DP, DOOKK (RNAV) DP, GRZZZ (RNAV) DP AND JETOK (RNAV) DP.
2. DELETED PAT1 ILS OR LOC RWY 3 KABQ FROM PROCEDURES REQUIRING CLIMB-IN-HOLD.
3. ADDED KABQ ALBUQUERQUE AND LARGO DEPARTURES TO LIST OF PROCEDURES UTILIZING PAT 1 CLIMB-IN-HOLD.

**DEVELOPED BY:**      **DATE:** 12/14/2016

**OFFICE:** AJV-5433

**NAME:** DANA MITCHELL (ANDREA CHANEY)

**APPROVED BY:**      **DATE:**

**OFFICE:** AJV-5430

**NAME:** PATRICK MULQUEEN

**SIGNATURE:**

**DISTRIBUTION:**    **NFDC**  
**FPO:** CEN  
**ARTCC:** ZAB  
**ATC FACILITY:** ABQ APP CON  
**OTHER:**

QUALITY  
19  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

**NAME:** FORT UNION VORTAC      **STATE:** NM      **COUNTRY:** US      **ICAO REGION CODE:** K2  
**LATITUDE/LONGITUDE:** 353927.18N/1050808.15W      **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	FORT UNION	FTI	VORTAC	H							45000

**FIX RESTRICTIONS:**

MCA V190 11300 SOUTHWEST BOUND  
MCA V263-611 11300 WESTBOUND  
MCA V263-611 10900 NORTHBOUND

**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	N	FTI	VORTAC	012.00	192.00	L	1-1 1/2		9000	40000	9	27
2	N		WP	012.00	192.00	L		4	14000	17000	11	17

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	265	AAO	354630.00N/1053300.00W	11661	2C
1	230	AAO	353728.60N/1050401.10W	7229	4C
2	230	AAO	353728.60N/1050401.10W	7229	4C

**REASON FOR NONSTANDARD HOLDING:**

PAT 1 HIGH TERRAIN WEST  
PAT 2 HIGH TERRAIN WEST

**HOLDING RESTRICTIONS:**

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 13000.

**PROCEDURES REQUIRING CLIMB-IN-HOLD:**

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKE-OFF MINIMUMS	KLVS	LAS VEGAS	NM (US)

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED  
CHART PATTERN 1 ENROUTE LOW, ENROUTE HIGH AND CONTROLLER CHART  
PATTERN 1 CLIMB IN HOLD TO 12000 FOR LAS VEGAS MUNI DEPARTURE PROCEDURE NOT AUTHORIZED FOR TURBOJET AIRCRAFT (LIMITED TO 230 KIAS).  
FORMERLY LAS VEGAS VORTAC (LVS)

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALBUQUERQUE			KABQ	ALBUQUERQUE	NM (US)
DP	FYSTA (RNAV)			KABQ	ALBUQUERQUE	NM (US)
DP	GRZZZ (RNAV)			KABQ	ALBUQUERQUE	NM (US)
DP	TAKE-OFF MINIMUMS		1	KLVS	LAS VEGAS	NM (US)
DP	TAFOY			KSAF	SANTA FE	NM (US)
EN ROUTE	J104					(US)
EN ROUTE	J18					(US)
EN ROUTE	J19					(US)
EN ROUTE	J244					(US)
EN ROUTE	J58					(US)
EN ROUTE	J76					(US)
EN ROUTE	J8					(US)
EN ROUTE	V190					(US)
EN ROUTE	V263					(US)
EN ROUTE	V60					(US)
EN ROUTE	V611					(US)
IAP	HI-ILS OR LOC RWY 8			KABQ	ALBUQUERQUE	NM (US)
IAP	HI-TACAN RWY 8			KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (GPS) RWY 17		2	KAXX	ANGEL FIRE	NM (US)
IAP	RNAV (GPS) RWY 02			KLVS	LAS VEGAS	NM (US)
IAP	RNAV (GPS) RWY 20			KLVS	LAS VEGAS	NM (US)
IAP	RNAV (GPS) RWY 32			KLVS	LAS VEGAS	NM (US)
IAP	VOR RWY 20		1	KLVS	LAS VEGAS	NM (US)
STAR	FRIHO			KABQ	ALBUQUERQUE	NM (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: 03/31/2016****REASON FOR REVISION:**

REMOVED KLVS - VOR RWY 2 FROM FIX USE.

REMOVED OLD PAT 2.

ADDED PAT 2 TO REFLECT HOLDING PUBLISHED ON KAXX RNAV (GPS) RWY 17.

**DEVELOPED BY:****DATE:** 01/20/2016**OFFICE:** AJV-5420**NAME:** JACOB POWERS (ALLISON CASON)**APPROVED BY:****DATE:** 02/09/2016**OFFICE:** AJV-5420**NAME:** GEORGE GONZALEZ**SIGNATURE:****DISTRIBUTION:****NFDC****FPO:** CEN**ARTCC:** ZAB**ATC FACILITY:** ABQ DEP CON**OTHER:**

## RADIO FIX AND HOLDING DATA RECORD

**NAME:** GALLUP VORTAC      **STATE:** NM      **COUNTRY:** US      **ICAO REGION CODE:** K2  
**LATITUDE/LONGITUDE:** 352833.60N/1085221.40W      **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	GALLUP	GUP	VORTAC	H							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	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SW	GUP	VORTAC	227.09	047.09	R	1		8900	14000	9	10
2	SE	GUP	VORTAC	125.00	305.00	R	1		9800	14000	9	10
3	NE	GUP	VORTAC	037.94	217.94	L	1 1/2		18000	39000	16	27
4	NE	WP	WP	037.94	217.94	L		10	18000	39000	17	28

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	AAO	352230.00N/1083515.00W	8524	4E
1	230	AAO	352543.00N/1090356.00W	7551	6A
2	230	AAO	352236.00N/1083539.00W	8488	4E

**REASON FOR NONSTANDARD HOLDING:**

PAT 3 ATC REQUEST  
 PAT 4 ATC REQUEST

**HOLDING RESTRICTIONS:**

PAT 3 CHART 210K ICON  
 PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER R-5117 AND R-5121  
 UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 10500.  
 PORTIONS OF UNPLANNED HOLDING LIE IN UNCONTROLLED AIRSPACE.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 CHART 210 KIAS ICON ON JESSE AND BUNTR STARS ONLY.  
 ASSIGNED MAG VAR: 14E 1965.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ADYOS (RNAV)			KABQ	ALBUQUERQUE	NM (US)
DP	ALBUQUERQUE			KABQ	ALBUQUERQUE	NM (US)
DP	LARGO			KABQ	ALBUQUERQUE	NM (US)
DP	RDRNR (RNAV)			KABQ	ALBUQUERQUE	NM (US)
DP	CHACO			KFMN	FARMINGTON	NM (US)
DP	ZIASE			KSAF	SANTA FE	NM (US)
DP	FLAMZ (RNAV)			KHND	LAS VEGAS	NV (US)
DP	COWBY (RNAV)			KLAS	LAS VEGAS	NV (US)
EN ROUTE	J102		3			(US)
EN ROUTE	J134					(US)
EN ROUTE	J19					(US)
EN ROUTE	J72					(US)
EN ROUTE	J8					(US)
EN ROUTE	J96					(US)
EN ROUTE	V291					(US)
EN ROUTE	V421					(US)
EN ROUTE	V60					(US)
EN ROUTE	V62					(US)
IAP	VOR/DME-A		2	KRQE	WINDOW ROCK	AZ (US)
IAP	HI-ILS OR LOC RWY 8			KABQ	ALBUQUERQUE	NM (US)
IAP	HI-TACAN RWY 8			KABQ	ALBUQUERQUE	NM (US)
IAP	LOC RWY 6		1	KGUP	GALLUP	NM (US)
IAP	RNAV (GPS) RWY 24			KGUP	GALLUP	NM (US)
IAP	RNAV (GPS) RWY 6			KGUP	GALLUP	NM (US)
IAP	VOR RWY 6		1	KGUP	GALLUP	NM (US)
STAR	BUNTR		3	KPHX	PHOENIX	AZ (US)
STAR	EAGUL (RNAV)		4	KPHX	PHOENIX	AZ (US)
STAR	JESSE		3	KPHX	PHOENIX	AZ (US)
STAR	CURLY			KABQ	ALBUQUERQUE	NM (US)
STAR	LOWBO (RNAV)			KABQ	ALBUQUERQUE	NM (US)
STAR	CURLY			KAEG	ALBUQUERQUE	NM (US)
STAR	CURLY			KIKR	ALBUQUERQUE	NM (US)

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



**COMPULSORY REPORTING POINT: NO****RECORD REVISION NUMBER: 16****DATE OF REVISION: 01/05/2017****REASON FOR REVISION:**ADDED REMARK: ASSIGNED MAG VAR: 14E 1965.  
UPDATE FIX USE. ADDED CURLY STAR.**DEVELOPED BY:**      **DATE:** 02/02/2016      **OFFICE:** AJV-5421      **NAME:** BRIAN BICKETT**APPROVED BY:**      **DATE:** 10/25/2016      **OFFICE:** AJV-5420      **NAME:** TONY LAWSON**SIGNATURE:****DISTRIBUTION:**    **NFDC**  
                         **FPO:** CEN  
                         **ARTCC:** ZAB  
                         **ATC FACILITY:** PHX APP CON  
                         **OTHER:** PHX ATCT, ABQ FSSQUALITY  
19  
CHECKED



## RADIO FIX AND HOLDING DATA RECORD

**NAME:** TAOS VORTAC      **STATE:** NM      **COUNTRY:** US      **ICAO REGION CODE:** K2  
**LATITUDE/LONGITUDE:** 363631.57N/1055422.75W      **TYPE:** WP

**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	TAOS	TAS	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	NW	TAS	VORTAC	296.00	116.00	R	1	12000 14000	9 10
2	NW	WP	WP	296.00	116.00	R	1	12500 14000	18 18

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	265	AAO	363300.00N/1052642.00W	13032	4E
1	230	AAO	364039.00N/1061242.00W	10374	4E
2	310	AAO	364842.00N/1062303.00W	11421	4E

**PRECIPITOUS TERRAIN ADDITIONS:**

PAT	SPEED	ADDITION
UPN	265	375
1	230	75
2	310	204

**HOLDING RESTRICTIONS:**

UNPLANNED HOLDING NA BELOW 13,400 FOR 230 KIAS AIRCRAFT, AND BELOW 14,500 FOR 265 KIAS AIRCRAFT.

**PROCEDURES REQUIRING CLIMB-IN-HOLD:**

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	TAKEOFF MINIMUMS	KSKX	TAOS	NM (US)

**REMARKS:**

PATTERNS 1 AND 2: HOLDING NOT ENTIRELY WITHIN CONTROLLED AIRSPACE. REQUIRES ATC AIRSPACE ACTION.  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 ASSIGNED FACILITY MAG VAR 13E/1965.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALBUQUERQUE			KABQ	ALBUQUERQUE	NM (US)
DP	POAKE			KSAF	SANTA FE	NM (US)
DP	TAKEOFF MINIMUMS		2	KSKX	TAOS	NM (US)
EN ROUTE	V-83					(US)
IAP	RNAV (GPS) RWY 17			KAXX	ANGEL FIRE	NM (US)
IAP	VOR/DME B		1	KSKX	TAOS	NM (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2      **DATE OF REVISION:** 01/05/2017

**REASON FOR REVISION:**

ADDED REMARK: ASSIGNED FACILITY MAG VAR 13E/1965.  
 UPDATED FIX USE. ADDED DP'S ALBUQUERQUE AND POAKE.

**DEVELOPED BY:**      **DATE:** 02/01/2016      **OFFICE:** AJV-5421      **NAME:** BRIAN BICKETT

**APPROVED BY:**      **DATE:** 10/25/2016      **OFFICE:** AJV-5420      **NAME:** TONY LAWSON

**SIGNATURE:**

**DISTRIBUTION:**      **NFDC**  
**FPO:** CEN  
**ARTCC:** ZAB  
**ATC FACILITY:**  
**OTHER:**



# INFORMATION ONLY

## RADIO FIX AND HOLDING DATA RECORD

NAME: TEXICO VORTAC STATE: TX COUNTRY: US ICAO REGION CODE: K4  
 LATITUDE/LONGITUDE: 342942.46N/1025022.79W 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	FEET	MRA	MAA
1	TEXICO	TXO	VORTAC	H							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 DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	NW	TXO	VORTAC	320.96	140.96	R	1	5800 14000	5 10
2	NE	TXO	VORTAC	061.62	241.62	R	1	6000 14000	5 10
3	NW		WP	322.96	142.96	R	5	5800 14000	6 11

### CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-001675)	343109.00N/1025244.00W	4555	3C
2	200	TOWER (48-001675)	343109.00N/1025244.00W	4555	3C
3	200	TOWER (48-001675)	343109.00N/1025244.00W	4555	3C

### HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

### REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

### FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALBUQUERQUE			KABQ	ALBUQUERQUE	NM (US)
DP	DOOKK (RNAV)			KABQ	ALBUQUERQUE	NM (US)
DP	JETOK (RNAV)			KABQ	ALBUQUERQUE	NM (US)
DP	MNZNO (RNAV)			KABQ	ALBUQUERQUE	NM (US)
DP	WORTH			KGKY	ARLINGTON	TX (US)
DP	WORTH			KADS	DALLAS	TX (US)
DP	COYOTE			KDAL	DALLAS	TX (US)
DP	LOVE			KDAL	DALLAS	TX (US)
DP	WORTH			KDAL	DALLAS	TX (US)
DP	WORTH			KRBD	DALLAS	TX (US)
DP	WORTH			KTKI	DALLAS	TX (US)
DP	COYOTE			KDFW	DALLAS-FORT WORTH	TX (US)
DP	WORTH			KDFW	DALLAS-FORT WORTH	TX (US)
DP	WORTH			KDTO	DENTON	TX (US)
DP	WORTH			KAFW	FORT WORTH	TX (US)
DP	WORTH			KFTW	FORT WORTH	TX (US)
DP	WORTH			KFWS	FORT WORTH	TX (US)
DP	WORTH			KNFW	FORT WORTH	TX (US)
DP	WORTH			KGPM	GRAND PRAIRIE	TX (US)
DP	WORTH			KLNC	LANCASTER	TX (US)
DP	WORTH			KHQZ	MESQUITE	TX (US)
EN ROUTE	J72					(US)
EN ROUTE	J74					(US)
EN ROUTE	V278					(US)
EN ROUTE	V280					(US)
EN ROUTE	V530					(US)
EN ROUTE	V62					TX (US)
IAP	ILS OR LOC RWY 4		2	KCVN	CLOVIS	NM (US)
IAP	RNAV (GPS) RWY 22			KCVN	CLOVIS	NM (US)
IAP	RNAV (GPS) RWY 30			KCVN	CLOVIS	NM (US)
IAP	VOR RWY 22		2	KCVN	CLOVIS	NM (US)
IAP	HI-ILS OR LOC RWY 21			KROW	ROSWELL	NM (US)
IAP	RNAV (GPS) RWY 2			KHRX	HEREFORD	TX (US)
IAP	RNAV (GPS)-B		3	K2T1	MULESHOE	TX (US)
IAP	VOR/DME-A		1	K2T1	MULESHOE	TX (US)
STAR	MIERA			KABQ	ALBUQUERQUE	NM (US)
STAR	MOTZA			KGKY	ARLINGTON	TX (US)
STAR	MOTZA			KCPT	CLEBURNE	TX (US)
STAR	GREGS			KADS	DALLAS	TX (US)
STAR	GREGS			KDAL	DALLAS	TX (US)
STAR	GREGS			KRBD	DALLAS	TX (US)
STAR	GREGS			KTKI	DALLAS	TX (US)
STAR	BOWIE			KDFW	DALLAS-FORT WORTH	TX (US)
STAR	MOTZA			KLUD	DECATUR	TX (US)
STAR	GREGS			KDTO	DENTON	TX (US)
STAR	GREGS			KF41	ENNIS	TX (US)
STAR	MOTZA			K50F	FORT WORTH	TX (US)
STAR	MOTZA			KAFW	FORT WORTH	TX (US)

QUALITY  
19  
CHECKED

STAR	MOTZA	KFTW	FORT WORTH	TX (US)
STAR	MOTZA	KFWS	FORT WORTH	TX (US)
STAR	MOTZA	KNFW	FORT WORTH	TX (US)
STAR	MOTZA	KGPM	GRAND PRAIRIE	TX (US)
STAR	GREGS	KLNC	LANCASTER	TX (US)
STAR	GREGS	KHQZ	MESQUITE	TX (US)
STAR	GREGS	KJWY	MIDLOTHIAN/WAXAHACHIE	TX (US)
STAR	GREGS	KF46	ROCKWALL	TX (US)
STAR	MOTZA	KWEA	WEATHERFORD	TX (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 14

**DATE OF REVISION:** 03/02/2017

**REASON FOR REVISION:**

REMOVE CANCELLED LITTLEFIELD (LIU) NDB RWY 1

REMOVE DALLAS-FORT WORTH (DFW) CEOLA (RNAV) DP, CANCELLED 11/13/2014

**DEVELOPED BY:**            **DATE:** 10/31/2016            **OFFICE:** AJV-5412            **NAME:** ROBERT ABBOTT

**APPROVED BY:**            **DATE:** 12/08/2016            **OFFICE:** AJV-5412            **NAME:** ALLAN WILL

**SIGNATURE:**

**DISTRIBUTION:**    **NFDC**  
**FPO:** CEN  
**ARTCC:** ZAB  
**ATC FACILITY:** CVS APP CON  
**OTHER:**



## RADIO FIX AND HOLDING DATA RECORD

**NAME:** ZUNI VORTAC      **STATE:** NM      **COUNTRY:** US      **ICAO REGION CODE:** K2

**LATITUDE/LONGITUDE:** 345756.71N/1090916.23W      **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	FAC FEET	MRA	MAA
1	ZUNI	ZUN	VORTAC	H							45000

**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	SW	ZUN	VORTAC	233.33	053.33	R	1		9000	14000	9	10
2	SW		WP	237.33	057.33	R		7	9000	12000	10	10
3	E	ZUN	VORTAC	073.01	253.01	L	1 1/2		18000	39000	16	27
4	E		WP	073.01	253.01	L		10	18000	39000	17	28
5	NE		WP	033.41	213.41	L		11	20000	45000	18	30

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	350051.70N/1090746.40W	6908	6A
2	230	AAO	345857.00N/1092246.00W	6911	6A

**REASON FOR NONSTANDARD HOLDING:**

PAT 4 ATC REQUEST  
PAT 3 ATC REQUEST  
PAT 5 ATC REQUEST

**HOLDING RESTRICTIONS:**

PAT 3 CHART 210K ICON  
HOLDING LIMITED TO ESTABLISHED PATTERNS.

**REMARKS:**

CHART 210KT ICON ON JESSE STAR HOLDING PATTERN ONLY.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ADYOS (RNAV)			KABQ	ALBUQUERQUE	NM (US)
DP	ALBUQUERQUE			KABQ	ALBUQUERQUE	NM (US)
DP	LARGO			KABQ	ALBUQUERQUE	NM (US)
DP	RDRNR (RNAV)			KABQ	ALBUQUERQUE	NM (US)
DP	TAKEOFF MINIMUMS			KZUN	ZUNI PUEBLO	NM (US)
EN ROUTE	J102					NM (US)
EN ROUTE	J19					NM (US)
EN ROUTE	J244					NM (US)
EN ROUTE	J6		3			NM (US)
EN ROUTE	J78		3			NM (US)
EN ROUTE	V12					NM (US)
EN ROUTE	V421					NM (US)
IAP	RNAV (GPS) RWY 6		2	KZUN	ZUNI PUEBLO	NM (US)
IAP	VOR/DME RWY 6		1	KZUN	ZUNI PUEBLO	NM (US)
STAR	HUUTY (RNAV)		5	KCHD	CHANDLER	AZ (US)
STAR	HUUTY (RNAV)		5	KFFZ	MESA	AZ (US)
STAR	HUUTY (RNAV)		5	KIWA	PHOENIX	AZ (US)
STAR	BUNTR		3	KPHX	PHOENIX	AZ (US)
STAR	EAGUL (RNAV)		4	KPHX	PHOENIX	AZ (US)
STAR	JESSE		3	KPHX	PHOENIX	AZ (US)
STAR	LAVAN			KABQ	ALBUQUERQUE	NM (US)

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

**COMPULSORY REPORTING POINT:** LOW

**RECORD REVISION NUMBER:** 12      **DATE OF REVISION:** 09/18/2014

**REASON FOR REVISION:**

- UPDATE CONTROLLING OBSTRUCTION PATTERN 2
- ADD 210KT CHARTING TO PATTERN 3 IN HOLDING RESTRICTIONS
- UPDATE FIX USE

**DEVELOPED BY:**      **DATE:** 01/02/2014      **OFFICE:** AJV-354      **NAME:** ALLAN WILL



APPROVED BY:

DATE: 09/18/2014

OFFICE: AJV-354

NAME: LARRY STROUT

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: CEN  
ARTCC: ZAB  
ATC FACILITY: PHX APP CON  
OTHER: PHX ATCT

QUALITY  
19  
CHECKED