

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** HOTTT **STATE:** AZ **COUNTRY:** US **ICAO REGION CODE:** K2

**LATITUDE/LONGITUDE:** 323137.00N/1110155.07W **TYPE:** WP, 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 NM	FAC FEET	MRA	MAA
1	TUCSON	TUS	VORTAC	H	335.06	347.06	26.53	26.53		9000	17500

**HOLDING:** **HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DAVIS MONTHAN	1		KDMA	TUCSON	AZ (US)
DP	BURRO (RNAV)			KTUS	TUCSON	AZ (US)
DP	WLDKT (RNAV)			KTUS	TUCSON	AZ (US)
STAR	SUNSS	1		KCHD	CHANDLER	AZ (US)
STAR	SUNSS	1		KP19	CHANDLER	AZ (US)
STAR	SUNSS	1		KGEU	GLENDALE	AZ (US)
STAR	SUNSS	1		KGYR	GOODYEAR	AZ (US)
STAR	SUNSS	1		KFFZ	MESA	AZ (US)
STAR	SUNSS	1		KDVT	PHOENIX	AZ (US)
STAR	SUNSS	1		KIWA	PHOENIX	AZ (US)
STAR	KOOLY (RNAV)			KPHX	PHOENIX	AZ (US)
STAR	PINNG (RNAV)			KPHX	PHOENIX	AZ (US)
STAR	SUNSS	1		KPHX	PHOENIX	AZ (US)
STAR	SUNSS	1		KSDL	SCOTTSDALE	AZ (US)

**REQUIRED CHARTING:** DP, STAR, MILITARY DP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 5 **DATE OF REVISION:** 04/27/2017

**REASON FOR REVISION:**

ADDED ALL AIRPORTS IN FIX USE FOR SUNSS STAR EXCEPT KPHX.

**DEVELOPED BY:** **DATE:** 02/02/2017 **OFFICE:** AJV-5422 **NAME:** DAVID DOWLING

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

**SIGNATURE:** **JON DENTON**

Feb 23, 2017

**DISTRIBUTION:** **NFDC**  
**FPO:** WST  
**ARTCC:** ZAB  
**ATC FACILITY:** PHX APP CON  
**OTHER:**



<b>NAME:</b> ITEM	<b>STATE:</b> AZ	<b>COUNTRY:</b> US	<b>ICAO REGION CODE:</b> K2
<b>LATITUDE/LONGITUDE:</b> 323511.33N/1103523.17W	<b>TYPE:</b> WP, DME		

FIX MAKE-UP FACILITIES:											
FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	STANFIELD	TFD	VORTAC	H	092.68	104.68	69.12	69.12		10000	45000
2	SAN SIMON	SSO	VORTAC	H	273.10	286.10	70.00	70.00		18000	45000

**HOLDING:** **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:		IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING ALTITUDES		TEMPLATES	
PAT	DIR							MIN	MAX	MIN	MAX
1	E		WP	094.10	274.10	L	8	18000	24000	17	20
2	E	TFD	VORTAC	092.68	272.68	L	10	18000	24000	18	21

**HOLDING RESTRICTIONS:**  
HOLDING LIMITED TO ESTABLISHED PATTERNS.

**REMARKS:**  
STANFIELD (FAC 1) AND SAN SIMON (FAC 2) USED TO ESTABLISH FIX COORDINATES  
HOLDING LEG LENGTHS REQUESTED BY ATC.  
COP BETWEEN FAC 1 AND FAC 2: SSO 57 NM/TED 82 NM.

FIX USE:	USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J50		1, 2				(US)
EN ROUTE	V94		1				(US)
STAR	SUNSS		1, 2	2	KCHD	CHANDLER	AZ (US)
STAR	SUNNS		1, 2	2	KP19	CHANDLER	AZ (US)
STAR	SUNSS		1, 2	2	KGEU	GLENDALE	AZ (US)
STAR	SUNSS		1, 2	2	KGYR	GOODYEAR	AZ (US)
STAR	SUNSS		1, 2	2	KFFZ	MESA	AZ (US)
STAR	SUNSS		1, 2	2	KDVT	PHOENIX	AZ (US)
STAR	SUNSS		1, 2	2	KIWA	PHOENIX	AZ (US)
STAR	KOOLY (RNAV)			1	KPHX	PHOENIX	AZ (US)
STAR	SUNSS		1, 2	2	KPHX	PHOENIX	AZ (US)
STAR	SUNSS		1, 2	2	KSDL	SCOTTSDALE	AZ (US)

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

**COMPULSORY REPORTING POINT: NO**


RECORD REVISION NUMBER: 7 DATE OF REVISION: 04/27/2017

**REASON FOR REVISION:**  
REMOVED PRECIPITOUS TERRAIN EVALUATION REMARK.  
ADDED CHANGEOVER POINT REMARK.  
ADDED FACILITIES COORDINATES REMARK.  
ADDED KP19 SUNNS STAR IN FIX USE.

**DEVELOPED BY:** **DATE:** 01/31/2017 **OFFICE:** AJV-5422 **NAME:** DAVID DOWLING

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

**JON DENTON**

**SIGNATURE:**  Feb 23, 2017

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

QUALITY  
17  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: SQUEZ STATE: AZ COUNTRY: US ICAO REGION CODE: K2  
 LATITUDE/LONGITUDE: 325955.44N/1112358.32W TYPE: WP, 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 FEET	MAA
1	PHOENIX	PXR	VORTAC	H	120.00	132.00	38.75	38.75	9000	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	E		WP	106.77	286.77	L		7	12000 15000	13 16
2	SE	PXR	VORTAC	120.00	300.00	L		7	9000 15000	13 17

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	AAO	324944.30N/1110401.20W	4173	6A
2	265	AAO	325054.00N/1110645.00W	3885	4E

## REASON FOR NONSTANDARD HOLDING:

PAT 2 ATC REQUEST  
 PAT 1 ATC

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

PRIOR COORDINATION WITH CONTROLLING AGENCY FOR HOLDING OVER R-2310B.  
 265 KT HOLDING PATTERN USED DUE TO 250KT SPEED RESTRICTION ON PROCEDURE.  
 HOLDING LEG LENGTH REQUESTED BY ATC.  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	SUNSS	1	2	KCHD	CHANDLER	AZ (US)
STAR	SUNSS	1	2	KP19	CHANDLER	AZ (US)
STAR	SUNSS	1	2	KGEU	GLENDALE	AZ (US)
STAR	SUNSS	1	2	KGYR	GOODYEAR	AZ (US)
STAR	SUNSS	1	2	KFFZ	MESA	AZ (US)
STAR	SUNSS	1	2	KDVT	PHOENIX	AZ (US)
STAR	SUNSS	1	2	KIWA	PHOENIX	AZ (US)
STAR	KOOLY (RNAV)		1	KPHX	PHOENIX	AZ (US)
STAR	SUNSS	1	2	KPHX	PHOENIX	AZ (US)
STAR	SUNSS	1	2	KSDL	SCOTTSDALE	AZ (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 DATE OF REVISION: 04/27/2017

## REASON FOR REVISION:

REMOVED HOLDING ALTITUDES COMPATIBILITY REMARK.  
 ADDED ALL AIRPORTS IN FIX USE FOR SUNNS STAR, EXCEPT KPHX.

DEVELOPED BY: DATE: 02/01/2017 OFFICE: AJV-5422 NAME: DAVID DOWLING

APPROVED BY: DATE: Digitally signed by OFFICE: AJV-5420 NAME: JULIE MORGAN

SIGNATURE: JON DENTON  
 Feb 23, 2017

DISTRIBUTION: NFDC  
 FPO: WST  
 ARTCC: ZAB  
 ATC FACILITY: PHX APP CON  
 OTHER:



# RADIO FIX AND HOLDING DATA RECORD

NAME: SUNSS

STATE: AZ

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 330307.76N/1112809.27W

TYPE: 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 NM	FAC FEET	MRA	MAA
1	PHOENIX	PXR	VORTAC	H	120.00	132.00	34.00	34.00		9000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	SUNSS	1		KCHD	CHANDLER	AZ (US)
STAR	SUNSS	1		KP19	CHANDLER	AZ (US)
STAR	SUNSS	1		KGEU	GLENDALE	AZ (US)
STAR	SUNSS	1		KGYR	GOODYEAR	AZ (US)
STAR	SUNSS	1		KFFZ	MESA	AZ (US)
STAR	SUNSS	1		KDVT	PHOENIX	AZ (US)
STAR	SUNSS	1		KIWA	PHOENIX	AZ (US)
STAR	SUNSS	1		KPHX	PHOENIX	AZ (US)
STAR	SUNSS	1		KSDL	SCOTTSDALE	AZ (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 04/27/2017

## REASON FOR REVISION:

ADDED KP19 SUNSS STAR IN FIX USE.

DEVELOPED BY:

DATE: 02/01/2017

OFFICE: AJV-5422

NAME: DAVID DOWLING

APPROVED BY:

DATE: *Digitally signed by* OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE: *JON DENTON*

Feb 23, 2017

DISTRIBUTION:

NFDC  
FPO: WST  
ARTCC: ZAB  
ATC FACILITY: PHX APP CON  
OTHER:

QUALITY  
17  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: TELGE STATE: AZ COUNTRY: US ICAO REGION CODE: K2  
 LATITUDE/LONGITUDE: 324038.60N/1105858.94W TYPE: 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	STANFIELD	TFD	VORTAC	H	092.68	104.68	48.46	48.46	10000	45000
2	PHOENIX	PXR	VORTAC	H	120.00	132.00	67.27	67.27	10000	45000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
TFD	VORTAC	R-093	49	10000	15900
PXR	VORTAC	R-120	68	10000	15700

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

STANFIELD (FAC 1) AND PHOENIX (FAC 2) USED TO ESTABLISH FIX COORDINATES

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	SUNSS	1, 2		KCHD	CHANDLER	AZ (US)
STAR	SUNSS	1, 2		KP19	CHANDLER	AZ (US)
STAR	SUNSS	1, 2		KGEU	GLENDALE	AZ (US)
STAR	SUNSS	1, 2		KGYR	GOODYEAR	AZ (US)
STAR	SUNSS	1, 2		KFFZ	MESA	AZ (US)
STAR	SUNSS	1, 2		KDVT	PHOENIX	AZ (US)
STAR	SUNSS	1, 2		KIWA	PHOENIX	AZ (US)
STAR	SUNSS	1, 2		KPHX	PHOENIX	AZ (US)
STAR	SUNSS	1, 2		KSDL	SCOTTSDALE	AZ (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 DATE OF REVISION: 04/27/2017

## REASON FOR REVISION:

ADDED FACILITIES COORDINATES REMARK.  
 ADDED ALL AIRPORTS IN FIX USE FOR SUNNS STAR, EXCEPT KPHX.

DEVELOPED BY: DATE: 02/01/2017 OFFICE: AJV-5422 NAME: DAVID DOWLING

APPROVED BY: DATE: Digitally signed by OFFICE: AJV-5420 NAME: JULIE MORGAN

SIGNATURE: JON DENTON  
 Feb 23, 2017

DISTRIBUTION: NFDC  
 FPO: WST  
 ARTCC: ZAB  
 ATC FACILITY: PHX APP CON  
 OTHER:



# 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	MRA FEET	MAA
1	TUCSON	TUS	VORTAC	H						45000

## FIX RESTRICTIONS:

MCA V393 9000 SOUTHBOUND  
 MCA V395 9000 SOUTHBOUND  
 MCA V16 8700 EASTBOUND  
 MCA T306 8700 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	NW	TUS	VORTAC	308.00	128.00	R	1-1 1/2	6500 45000	8 29

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	321640.80N/1110845.50W	4887	6A
1	310	AAO	341640.80N/1110845.50W	4887	6A

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKE-OFF MINIMUMS	KTUS	TUCSON	AZ (US)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## 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	BNYRD (RNAV)			KFFZ	MESA	AZ (US)
DP	NOGALES (RNAV)			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	BNYRD (RNAV)			KPHX	PHOENIX	AZ (US)
DP	STANDFIELD			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	TAKE-OFF MINIMUMS		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	NDB RWY 26			KFHU	FORT HUACHUCA/SIERRA VISTA	AZ (US)
IAP	NDB OR GPS-C			KOLS	NOGALES	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	NDB RWY 12			KAVQ	TUCSON	AZ (US)
IAP	RNAV (GPS)-E			KAVQ	TUCSON	AZ (US)
IAP	ILS OR LOC RWY 6R			KRYN	TUCSON	AZ (US)
IAP	NDB/DME OR GPS RWY 6R			KRYN	TUCSON	AZ (US)
IAP	ILS OR LOC RWY 11L			KTUS	TUCSON	AZ (US)
IAP	LOC/DME BC RWY 29R			KTUS	TUCSON	AZ (US)
IAP	RNAV (GPS) Z RWY 11L			KTUS	TUCSON	AZ (US)

QUALITY  
17  
CHECKED

**COMPULSORY REPORTING POINT: NO**

RECORD REVISION NUMBER: 11 DATE OF REVISION: 04/27/2017

**DEVELOPED BY:**            **DATE:** 02/14/2017            **OFFICE:** AJV-5422            **NAME:** DAVID DOWLING

**APPROVED BY:** **DATE:** *Digitally signed by* **OFFICE:** AJV-5420 **NAME:** JULIE MORGAN  
*JON DENTON*  
**SIGNATURE:** Feb 23, 2017

**DISTRIBUTION:** NFDC  
FPO: WST  
ARTCC: ZAB  
ATC FACILITY: PHX ATCT  
OTHER:

QUALITY  
17  
CHECKED