

RADIO FIX AND HOLDING DATA RECORD

NAME: BICEP **STATE:** OK **COUNTRY:** US **ICAO REGION CODE:** K4

LATITUDE/LONGITUDE: 362623.73N/0952947.31W **TYPE:** INT, DME

AIRSPACE DOCKET: 21-ACE-1 **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	TULSA	TUL	VORTAC	H	036.00	044.00	20.32	20.32	2600	45000
2	BARTLESVILLE	BVO	VOR/DME	L	125.00	133.00		34.55	2600	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	NE	TUL	VORTAC	036.00	216.00	R	1	2600 8000	6 10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (40-001476)	362403.34N/0953630.92W	1549	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

TULSA (FAC 1) AND BARTLESVILLE (FAC 2) USED TO ESTABLISH FIX COORDINATES.
HOLDING PAT 1 PER ATC REQUEST.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V88	1, 2				(US)
STAR	VINTA	1, 2		KRVS	TULSA	OK (US)
STAR	VINTA	1, 2		KTUL	TULSA	OK (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 01/27/2022

REASON FOR REVISION:

1. DELETED V506 FROM FIX USE.
2. ADDED AIRSPACE DOCKET 21-ACE-1.
3. UPDATED HOLDING PATTERN 1 CONTROLLING OBSTACLE DATA.
4. CHANGED FAC 2 BVO VOR/DME MAA FROM 4500 TO 17500 AND DELETED ASSOCIATED ESV.
5. DELETED EN ROUTE HIGH FROM FIX USE.
6. DELETED EN ROUTE HIGH AND CONTROLLER HIGH FROM REQUIRED CHARTING.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** LIAM DONAHUE

APPROVED BY: **DATE:** 08/06/2021 **OFFICE:** AJV-A430 **NAME:** LONNIE EVERHART

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: NERNE

STATE: OK

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 365958.39N/0944858.73W

TYPE: DME

AIRSPACE DOCKET: 21-ACE-1

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	TULSA	TUL	VORTAC	H	036.00	044.00	67.24	67.24		6200	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
TUL	VORTAC	R-036	68	6200	15300

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V88	1				

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 01/27/2022

REASON FOR REVISION:

1. DELETED INT FROM FIX TYPE.
2. DELETED FAC1 FROM FIX MAKE-UP FACILITIES.
3. DELETED V307 FROM FIX USE.
4. CORRECTED MAX ALT IN NEW FAC1 (TUL) AND ESV FROM 15200 TO 17500.
5. CHANGED CONTROLLER TO CONTROLLER LOW IN REQUIRED CHARTING.
6. DELETED NEOSHO (FAC 1) AND TULSA (FAC 2) USED TO ESTABLISH FIX COORDINATES. FROM REMARKS.
7. ADDED AIRSPACE DOCKET 21-ACE-1.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: LIAM DONAHUE

APPROVED BY:

DATE: 08/06/2021

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: SPRINGFIELD VORTAC **STATE:** MO **COUNTRY:** US **ICAO REGION CODE:** K3

LATITUDE/LONGITUDE: 372121.41N/0932002.55W **TYPE:**

AIRSPACE DOCKET: 21-ACE-1 **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	SPRINGFIELD	SGF	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	N	SGF	VORTAC	016.00	196.00	R	1	2900 17500	4 16
2	SE		WP	156.02	336.02	R	5	3000 17500	5 17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (29-001455)	372552.00N/0931605.00W	1670	3C
2	200	TOWER (29-000186)	371324.78N/0931430.50W	1983	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR: E4 1990.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BENTON			KVBT	BENTONVILLE	AR (US)
DP	RAZORBACK			KFYV	FAYETTEVILLE	AR (US)
DP	HIGHFILL			KXNA	FAYETTEVILLE/SPRINGDALE/R	AR (US)
DP	ROGERS			KROG	ROGERS	AR (US)
DP	SPRING			KASG	SPRINGDALE	AR (US)
DP	RACER			KFLV	FORT LEAVENWORTH	KS (US)
DP	RACER			KIXD	OLATHE	KS (US)
DP	RACER			KOJC	OLATHE	KS (US)
DP	RACER			KMCI	KANSAS CITY	MO (US)
DP	RACER			KMKC	KANSAS CITY	MO (US)
DP	RACER			KLXT	LEE'S SUMMIT	MO (US)
DP	RACER			KGPH	MOSBY	MO (US)
DP	RACER			KSTJ	ST JOSEPH	MO (US)
DP	TULSA			KRVS	TULSA	OK (US)
DP	TULSA			KTUL	TULSA	OK (US)
EN ROUTE	J41					(US)
EN ROUTE	J8					(US)
EN ROUTE	J98					(US)
EN ROUTE	V132					(US)
EN ROUTE	V14					(US)
EN ROUTE	V159					(US)
EN ROUTE	V190					(US)
EN ROUTE	V527					(US)
EN ROUTE	V63					(US)
EN ROUTE	V71					(US)
EN ROUTE	V88					(US)
IAP	RNAV (GPS) RWY 18		2	M17	BOLIVAR	MO (US)
IAP	RNAV (GPS) RWY 36		2	M17	BOLIVAR	MO (US)
IAP	VOR/DME RWY 36			M17	BOLIVAR	MO (US)
IAP	VOR-A			KOZS	CAMDENTON	MO (US)
IAP	LOC/DME RWY 22			KAIZ	KAISER/LAKE OZARK	MO (US)
IAP	VOR RWY 4			KAIZ	KAISER/LAKE OZARK	MO (US)
IAP	VOR RWY 32			K15	OSAGE BEACH	MO (US)
IAP	HI-TACAN RWY 20			KSGF	SPRINGFIELD	MO (US)
IAP	ILS OR LOC RWY 14		1	KSGF	SPRINGFIELD	MO (US)
IAP	ILS OR LOC RWY 2		1	KSGF	SPRINGFIELD	MO (US)
IAP	RNAV (GPS) RWY 14			KSGF	SPRINGFIELD	MO (US)
IAP	VOR OR TACAN RWY 20			KSGF	SPRINGFIELD	MO (US)
IAP	VOR/DME OR TACAN RWY 2		1	KSGF	SPRINGFIELD	MO (US)
IAP	VOR/DME-A			MO3	STOCKTON	MO (US)
STAR	TYGER			KFLV	FORT LEAVENWORTH	KS (US)
STAR	TYGER			KIXD	OLATHE	KS (US)
STAR	TYGER			KOJC	OLATHE	KS (US)
STAR	TYGER			KMCI	KANSAS CITY	MO (US)
STAR	TYGER			KMKC	KANSAS CITY	MO (US)
STAR	TYGER			KLXT	LEES SUMMIT	MO (US)
STAR	TYGER			KGPH	MOSBY	MO (US)
STAR	TYGER			KSTJ	ST JOSEPH	MO (US)
STAR	KAYLA (RNAV)			KSTL	ST LOUIS	MO (US)

STAR	KOOOP	KSTL	ST LOUIS	MO (US)
STAR	GULLI	KCHK	CHICKASHA	OK (US)
STAR	GULLI	KRQO	EL RENO	OK (US)
STAR	GULLI	1K4	GOLDSBY	OK (US)
STAR	GULLI	KGOK	GUTHRIE	OK (US)
STAR	GULLI	KOUN	NORMAN	OK (US)
STAR	GULLI	KHSD	OKLAHOMA CITY	OK (US)
STAR	GULLI	KOKC	OKLAHOMA CITY	OK (US)
STAR	GULLI	KPWA	OKLAHOMA CITY	OK (US)
STAR	GULLI	KRCE	OKLAHOMA CITY	OK (US)
STAR	GULLI	KTIK	OKLAHOMA CITY	OK (US)
STAR	GULLI	KSNL	SHAWNEE	OK (US)
STAR	VINTA	KRVS	TULSA	OK (US)
STAR	VINTA	KTUL	TULSA	OK (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 23

DATE OF REVISION: 01/27/2022

REASON FOR REVISION:

1. DELETED V506 FROM FIX USE.
2. ADDED AIRSPACE DOCKET 21-ACE-1.
3. CORRECTED HOLDING PATTERN 2 MIN/MAX TEMPLATES FROM 4/16 TO 5/17.
4. DELETED MILITARY IAP FROM REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: LIAM DONAHUE

APPROVED BY:

DATE: 08/06/2021

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: TULSA VORTAC **STATE:** OK **COUNTRY:** US **ICAO REGION CODE:** K4

LATITUDE/LONGITUDE: 361146.51N/0954717.13W **TYPE:**

AIRSPACE DOCKET: 21-ACE-1 **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	TULSA	TUL	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	N	TUL	VORTAC	007.00	187.00	R	1	3000 45000	4 29
2	E	TUL	VORTAC	081.00	261.00	R	1	2400 17500	4 16
3	E	TUL	VORTAC	080.00	260.00	R	1	2400 15000	4 15

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (40-001734)	362002.81N/0954709.50W	1340	2C
2	200	TOWER (40-000147)	360847.60N/0954827.10W	1234	4D
2	310	TOWER (40-001734)	362002.81N/0954709.50W	1340	2C
3	200	TOWER (40-000147)	360847.60N/0954827.10W	1234	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	ILS OR LOC RWY 18L	KTUL	TULSA	OK (US)

REMARKS:

CHART PAT 1 ONLY ON LOW AND HIGH ENROUTE CHARTS
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAG VAR: E08/1970.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BENTON			KVBT	BENTONVILLE	AR (US)
DP	RAZORBACK			KFYV	FAYETTEVILLE	AR (US)
DP	HIGHFILL			KXNA	FAYETTEVILLE/SPRINGDALE/RO GERS	AR (US)
DP	ROGERS			KROG	ROGERS	AR (US)
DP	SPRING			KASG	SPRINGDALE	AR (US)
DP	TULSA		3	KRV/S	TULSA	OK (US)
DP	TULSA		3	KTUL	TULSA	OK (US)
DP	LEONA			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	TEXOMA			KGKY	ARLINGTON	TX (US)
DP	TEXOMA			KADS	DALLAS	TX (US)
DP	ESNYE (RNAV)			KDAL	DALLAS	TX (US)
DP	KRUMM			KDAL	DALLAS	TX (US)
DP	SWTSR (RNAV)			KDAL	DALLAS	TX (US)
DP	TEXOMA			KDAL	DALLAS	TX (US)
DP	TEXOMA			KRBD	DALLAS	TX (US)
DP	BLECO (RNAV)			KDFW	DALLAS-FORT WORTH	TX (US)
DP	JACKY			KDFW	DALLAS-FORT WORTH	TX (US)
DP	TEXOMA			KDFW	DALLAS-FORT WORTH	TX (US)
DP	TEXOMA			KDTP	DENTON	TX (US)
DP	TEXOMA			KAFW	FORT WORTH	TX (US)
DP	TEXOMA			KFTW	FORT WORTH	TX (US)
DP	TEXOMA			KFWS	FORT WORTH	TX (US)
DP	TEXOMA			KNFW	FORT WORTH	TX (US)
DP	LEONA			KGLS	GALVESTON	TX (US)
DP	TEXOMA			KGPM	GRAND PRAIRIE	TX (US)
DP	LEONA			KAXH	HOUSTON	TX (US)
DP	LEONA			KCXO	HOUSTON	TX (US)
DP	LEONA			KDWH	HOUSTON	TX (US)
DP	LEONA			KEFD	HOUSTON	TX (US)
DP	LEONA			KHOU	HOUSTON	TX (US)
DP	LEONA			KIAH	HOUSTON	TX (US)
DP	LEONA			KIWS	HOUSTON	TX (US)
DP	LEONA			KSGR	HOUSTON	TX (US)
DP	LEONA			KTME	HOUSTON	TX (US)
DP	LEONA			T41	LA PORTE	TX (US)
DP	TEXOMA			KLNC	LANCASTER	TX (US)
DP	TEXOMA			KTKI	MC KINNEY	TX (US)
DP	TEXOMA			KHQZ	MESQUITE	TX (US)
EN ROUTE	V256					(US)

EN ROUTE	V73			(US)	
EN ROUTE	V88			(US)	
EN ROUTE	J25			OK (US)	
EN ROUTE	J46			OK (US)	
EN ROUTE	J78			OK (US)	
EN ROUTE	J87			OK (US)	
EN ROUTE	J98			OK (US)	
EN ROUTE	V131			OK (US)	
EN ROUTE	V14			OK (US)	
EN ROUTE	V140			OK (US)	
EN ROUTE	V161			OK (US)	
EN ROUTE	V436			OK (US)	
EN ROUTE	V74			OK (US)	
IAP	VOR/DME RWY 35		KBVO	BARTLESVILLE	OK (US)
IAP	VOR/DME-B	2	KGCM	CLAREMORE	OK (US)
IAP	RNAV (GPS) RWY 36		H71	PRYOR	OK (US)
IAP	RNAV (GPS) RWY 17		KOWP	SAND SPRINGS	OK (US)
IAP	RNAV (GPS) RWY 35		KOWP	SAND SPRINGS	OK (US)
IAP	ILS OR LOC RWY 1L		KRVS	TULSA	OK (US)
IAP	VOR/DME-A		KRVS	TULSA	OK (US)
IAP	HI-VOR/DME OR TACAN RWY 26		KTUL	TULSA	OK (US)
IAP	ILS OR LOC RWY 18L	2	KTUL	TULSA	OK (US)
IAP	ILS OR LOC RWY 18R		KTUL	TULSA	OK (US)
IAP	ILS OR LOC RWY 36R	2	KTUL	TULSA	OK (US)
IAP	ILS RWY 36R (CAT II)	2	KTUL	TULSA	OK (US)
IAP	ILS RWY 36R (SA CAT I)	2	KTUL	TULSA	OK (US)
IAP	RADAR-1	2	KTUL	TULSA	OK (US)
IAP	VOR OR TACAN RWY 26		KTUL	TULSA	OK (US)
IAP	VOR/DME RWY 8		KTUL	TULSA	OK (US)
STAR	GULLI		KCHK	CHICKASHA	OK (US)
STAR	GULLI		KRQO	EL RENO	OK (US)
STAR	GULLI		1K4	GOLDSBY	OK (US)
STAR	GULLI		KGOK	GUTHRIE	OK (US)
STAR	GULLI		KOUN	NORMAN	OK (US)
STAR	GULLI		KHSD	OKLAHOMA CITY	OK (US)
STAR	GULLI		KOKC	OKLAHOMA CITY	OK (US)
STAR	GULLI		KPWA	OKLAHOMA CITY	OK (US)
STAR	GULLI		KRCE	OKLAHOMA CITY	OK (US)
STAR	GULLI		KTIK	OKLAHOMA CITY	OK (US)
STAR	GULLI		KSNL	SHAWNEE	OK (US)
STAR	VINTA		KRVS	TULSA	OK (US)
STAR	VINTA		KTUL	TULSA	OK (US)
STAR	MOTZA		KGKY	ARLINGTON	TX (US)
STAR	SASIE		KGKY	ARLINGTON	TX (US)
STAR	MOTZA		KCPT	CLEBURNE	TX (US)
STAR	SASIE		KCPT	CLEBURNE	TX (US)
STAR	FINGR		KADS	DALLAS	TX (US)
STAR	GREGS		KADS	DALLAS	TX (US)
STAR	SASIE		KADS	DALLAS	TX (US)
STAR	FINGR		KDAL	DALLAS	TX (US)
STAR	GREGS		KDAL	DALLAS	TX (US)
STAR	FINGR		KRBD	DALLAS	TX (US)
STAR	GREGS		KRBD	DALLAS	TX (US)
STAR	FINGR		KTKI	DALLAS	TX (US)
STAR	GREGS		KTKI	DALLAS	TX (US)
STAR	BOWIE		KDFW	DALLAS-FORT WORTH	TX (US)
STAR	FINGR		KDFW	DALLAS-FORT WORTH	TX (US)
STAR	WILBR		KDFW	DALLAS-FORT WORTH	TX (US)
STAR	MOTZA		KLUD	DECATUR	TX (US)
STAR	SASIE		KLUD	DECATUR	TX (US)
STAR	GREGS		KDTO	DENTON	TX (US)
STAR	SASIE		KDTO	DENTON	TX (US)
STAR	FINGR		F41	ENNIS	TX (US)
STAR	GREGS		F41	ENNIS	TX (US)
STAR	MOTZA		50F	FORT WORTH	TX (US)
STAR	SASIE		50F	FORT WORTH	TX (US)
STAR	GREGS		KAFW	FORT WORTH	TX (US)
STAR	MOTZA		KAFW	FORT WORTH	TX (US)
STAR	SASIE		KAFW	FORT WORTH	TX (US)
STAR	MOTZA		KFTW	FORT WORTH	TX (US)
STAR	SASIE		KFTW	FORT WORTH	TX (US)
STAR	MOTZA		KFWS	FORT WORTH	TX (US)
STAR	SASIE		KFWS	FORT WORTH	TX (US)
STAR	MOTZA		KNFW	FORT WORTH	TX (US)
STAR	SASIE		KNFW	FORT WORTH	TX (US)
STAR	MOTZA		KGPM	GRAND PRAIRIE	TX (US)
STAR	SASIE		KGPM	GRAND PRAIRIE	TX (US)
STAR	FINGR		KLNC	LANCASTER	TX (US)
STAR	GREGS		KLNC	LANCASTER	TX (US)
STAR	FINGR		KHQZ	MESQUITE	TX (US)
STAR	GREGS		KHQZ	MESQUITE	TX (US)
STAR	FINGR		KJWY	MIDLOTHIAN/WAXAHACHIE	TX (US)
STAR	GREGS		KJWY	MIDLOTHIAN/WAXAHACHIE	TX (US)
STAR	FINGR		F46	ROCKWALL	TX (US)
STAR	GREGS		F46	ROCKWALL	TX (US)
STAR	MOTZA		KWEA	WEATHERFORD	TX (US)
STAR	SASIE		KWEA	WEATHERFORD	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 24

DATE OF REVISION: 01/27/2022

REASON FOR REVISION:

1. DELETED V506 FROM FIX USE.
2. ADDED AIRSPACE DOCKET 21-ACE-1.
3. DELETED MILITARY IAP FROM REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: LIAM DONAHUE

APPROVED BY:

DATE: 08/06/2021

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE: