

RADIO FIX AND HOLDING DATA RECORD

NAME: BRAUN STATE: TX COUNTRY: US ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294846.18N/0980347.63W TYPE: WP, INT, DME

AIRSPACE DOCKET: 24-ASW-4 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	SAN ANTONIO	SAT	VORTAC	VH	055.99	063.99	23.12	23.12		3100	17500
2	STONEWALL	STV	VORTAC	VH	117.00	125.00	40.94	40.94		5500	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
STV	VORTAC	R-117	41	5500	16100

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	S		WP	159.89	339.89	R	4	3100	12000	5	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-001049)	294936.40N/0980700.00W	1728	2C
1	310	TOWER (48-001049)	294936.40N/0980700.00W	1728	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 35	KBAZ	NEW BRAUNFELS	TX (US)

REMARKS:

SAN ANTONIO (FAC 1) AND STONEWALL (FAC 2) USED TO ESTABLISH FIX COORDINATES. PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 35		1	KBAZ	NEW BRAUNFELS	TX (US)
IAP	RNAV (GPS) RWY 32			KSSF	SAN ANTONIO	TX (US)
STAR	MARCS	1, 2		KSAT	SAN ANTONIO	TX (US)
STAR	MARCS	1, 2		KSKF	SAN ANTONIO	TX (US)
STAR	MARCS	1, 2		KSSF	SAN ANTONIO	TX (US)
STAR	MARCS	1, 2		KRND	UNIVERSAL CITY	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 DATE OF REVISION: 02/20/2025

REASON FOR REVISION:

AIRSPACE DOCKET: ADDED 24-ASW-4.
FIX MAKE-UP FACILITIES: CHANGED FACS 1 (SAT) AND 2 (STV) CLASS FROM H TO VH.
ESV: CHANGED STV VORTAC MAX ALTITUDE FROM 17500 TO 16100 - MAX ALTITUDE FOR DME COMPONENT.
FIX RESTRICTIONS: REMOVED MRA V68 5500.
FIX USE: REMOVED V68.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 NAME: BARRY SMITH

APPROVED BY: DATE: 02/20/2025 OFFICE: AJV-A423 NAME: ALLAN WILL

SIGNATURE:

STAR	BLEWE		KHYI	AUSTIN	TX (US)
STAR	RIICE		6R3	CLEVELAND	TX (US)
STAR	RIICE		KCXO	CONROE	TX (US)
STAR	YEAGR		KADS	DALLAS	TX (US)
STAR	YEAGR		KDAL	DALLAS	TX (US)
STAR	DODJE		KRBD	DALLAS	TX (US)
STAR	YEAGR		KTKI	DALLAS	TX (US)
STAR	CEDAR CREEK		KDFW	DALLAS-FORT WORTH	TX (US)
STAR	YEAGR		KDFW	DALLAS-FORT WORTH	TX (US)
STAR	DODJE		KLUD	DECATUR	TX (US)
STAR	DODJE		KDTO	DENTON	TX (US)
STAR	DODJE		KAFW	FORT WORTH	TX (US)
STAR	DODJE		KFTW	FORT WORTH	TX (US)
STAR	DODJE		KFWS	FORT WORTH	TX (US)
STAR	DODJE		KNFW	FORT WORTH	TX (US)
STAR	DODJE		KGPM	GRAND PRAIRIE	TX (US)
STAR	RIICE		KDWH	HOUSTON	TX (US)
STAR	RIICE		KIAH	HOUSTON	TX (US)
STAR	BLEWE		KRYW	LAGO VISTA	TX (US)
STAR	BLEWE		3R9	LAKEWAY	TX (US)
STAR	DODJE		KLNC	LANCASTER	TX (US)
STAR	RIICE		T78	LIBERTY	TX (US)
STAR	YEAGR		KHQZ	MESQUITE	TX (US)
STAR	DODJE		KJWY	MIDLOTHIAN/WAXAHACHIE	TX (US)
STAR	YEAGR		F46	ROCKWALL	TX (US)
STAR	MARCS	2	KSAT	SAN ANTONIO	TX (US)
STAR	MARCS	2	KSKF	SAN ANTONIO	TX (US)
STAR	MARCS	2	KSSF	SAN ANTONIO	TX (US)
STAR	BLEWE		T74	TAYLOR	TX (US)
STAR	MARCS	2	KRND	UNIVERSAL CITY	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: 02/20/2025

REASON FOR REVISION:

AIRSPACE DOCKET: CHANGED 23-ASW-16 TO 24-ASW-4.
HOLDING: ADDED PAT 2 AND ALL ASSOCIATED DATA.
HOLDING RESTRICTIONS: CHANGED PATTERN TO PATTERNS.
REMARKS: ADDED PAT 2 10 NM LEG LENGTH ATC REQUEST.
FIX USE: REMOVED V558. REMOVED INDUSTRY DP AT ALL AFFECTED AIRPORTS - IDU VOR MON. ADDED PAT 2 TO MARCS STAR AT ALL AFFECTED AIRPORTS.

11/06/24: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 09/30/24.
1. HOLDING: CHANGED PAT 2 LEG LENGTH FROM 10 DME TO 1 MIN. CHANGED PAT 2 CONTROLLING OBSTRUCTION FROM AAO TO TOWER (48-008572).
2. REMARKS: REMOVED PAT 2 10 NM LEG LENGTH ATC REQUEST.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 NAME: BARRY SMITH

APPROVED BY: DATE: 02/20/2025 OFFICE: AJV-A423 NAME: ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: COLLEGE STATION VORTAC **STATE:** TX **COUNTRY:** US **ICAO REGION CODE:** K4

LATITUDE/LONGITUDE: 303618.01N/0962514.45W **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	MRA	MAA
							NM	FEET		
1	COLLEGE STATION	CLL	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	TEMPLATES
									MIN	MAX
1	NE	CLL	VORTAC	063.00	243.00	R	1		2100	6000
2	W	CLL	VORTAC	279.00	099.00	R	1		2000	6000

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-003334)	304116.22N/0962532.44W	1022	1A
2	200	TOWER (48-004140)	303939.66N/0962500.12W	787	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR: 8E (1965).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	JOE POOL			KGKY	ARLINGTON	TX (US)
DP	CENTEX			KAUS	AUSTIN	TX (US)
DP	JOE POOL			KADS	DALLAS	TX (US)
DP	CURLO (RNAV)			KDAL	DALLAS	TX (US)
DP	JOE POOL			KDAL	DALLAS	TX (US)
DP	RAMBL (RNAV)			KDAL	DALLAS	TX (US)
DP	VENUS			KDAL	DALLAS	TX (US)
DP	JOE POOL			KRBD	DALLAS	TX (US)
DP	JOE POOL			KTKI	DALLAS	TX (US)
DP	ARDIA (RNAV)			KDFW	DALLAS-FORT WORTH	TX (US)
DP	JOE POOL			KDFW	DALLAS-FORT WORTH	TX (US)
DP	KEENE			KDFW	DALLAS-FORT WORTH	TX (US)
DP	JOE POOL			KDTO	DENTON	TX (US)
DP	CONRA			KHLR	FORT HOOD (KILLEEN)	TX (US)
DP	CONRA			KGRK	FORT HOOD/KILLEEN	TX (US)
DP	JOE POOL			KAFW	FORT WORTH	TX (US)
DP	JOE POOL			KFTW	FORT WORTH	TX (US)
DP	JOE POOL			KFWS	FORT WORTH	TX (US)
DP	JOE POOL			KNFW	FORT WORTH	TX (US)
DP	JOE POOL			KGPM	GRAND PRAIRIE	TX (US)
DP	JUNCTION			KCXO	HOUSTON	TX (US)
DP	JUNCTION			KDWH	HOUSTON	TX (US)
DP	JUNCTION			KIAH	HOUSTON	TX (US)
DP	CONRA			KILE	KILLEEN	TX (US)
DP	JOE POOL			KLNC	LANCASTER	TX (US)
DP	JOE POOL			KHQZ	MESQUITE	TX (US)
EN ROUTE	Q4					(US)
EN ROUTE	T200					(US)
EN ROUTE	T254					(US)
EN ROUTE	V15					(US)
EN ROUTE	V194					(US)
EN ROUTE	V548					(US)
EN ROUTE	V565					(US)
EN ROUTE	V583					(US)
IAP	VOR/DME-A		1	KRWW	CALDWELL	TX (US)
IAP	ILS OR LOC RWY 35			KCLL	COLLEGE STATION	TX (US)
IAP	LOC BC RWY 17			KCLL	COLLEGE STATION	TX (US)
IAP	VOR OR TACAN RWY 11			KCLL	COLLEGE STATION	TX (US)
IAP	VOR RWY 29		2	KCLL	COLLEGE STATION	TX (US)
IAP	RNAV (GPS) RWY 1			51R	MADISONVILLE	TX (US)
STAR	RIICE			6R3	CLEVELAND	TX (US)
STAR	RIICE			KCXO	HOUSTON	TX (US)
STAR	RIICE			KDWH	HOUSTON	TX (US)
STAR	RIICE			KIAH	HOUSTON	TX (US)
STAR	RIICE			T78	LIBERTY	TX (US)
STAR	MARCS			KSAT	SAN ANTONIO	TX (US)
STAR	MARCS			KSKF	SAN ANTONIO	TX (US)
STAR	MARCS			KSSF	SAN ANTONIO	TX (US)
STAR	MARCS			KRND	UNIVERSAL CITY	TX (US)

Information Only**REQUIRED CHARTING:** DP, STAR, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH**COMPULSORY REPORTING POINT:** NO**RECORD REVISION NUMBER:** 29**DATE OF REVISION:** 02/20/2025**REASON FOR REVISION:**REMOVED STAR BITER FOR KAUS, KEDC, KGTU, KRYW, 3R9 AND KHYI AIRPORTS FROM FIX USE.
ADDED STAR MARCS FOR KSAT, KSKF, KSSF AND KRND AIRPORTS TO FIX USE.**INITIATED BY:****DATE:****ORGANIZATION:****NAME:****OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

NAME: SILVIA YOUNG**APPROVED BY:****DATE:** 02/20/2025**OFFICE:** AJV-A432**NAME:** CASIMIR TABAKA**SIGNATURE:**

RADIO FIX AND HOLDING DATA RECORD

NAME: CRAYS **STATE:** TX **COUNTRY:** US **ICAO REGION CODE:** K4

LATITUDE/LONGITUDE: 295506.43N/0972559.46W **TYPE:** WP

AIRSPACE DOCKET: 24-ASW-4 **FIX TYPE OF ACTION:** MODIFY

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	SW		WP	238.00	058.00	R	4	3000	6000	5	6
2	E		WP	083.38	263.38	R	20	6000	45000	25	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-008828)	295701.00N/0972214.00W	1520	5D
2	230	TOWER (48-008828)	295701.00N/0972214.00W	1520	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

HOLDING PAT 2: DME OUTBOUND EVALUATED TO 20 DME LEG LENGTH PER ATC.
 HOLDING PAT 2, ATC REQUEST.
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	T220					
IAP	RNAV (GPS) RWY 35			KGYB	GIDDINGS	TX (US)
IAP	RNAV (GPS) RWY 36		1	50R	LOCKHART	TX (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 02/20/2025

REASON FOR REVISION:

TYPE: REMOVED DME AND INT.
 AIRSPACE DOCKET: ADDED 24-ASW-4.
 FIX MAKE-UP FACILITIES: REMOVED FAC 1 (IDU) - IDU VOR MON. REMOVED FAC 2 (CWK) - FIX HAS NO GROUND BASED NAVAID USAGE.
 ESV: REMOVED IDU VORTAC ESV DATA.
 HOLDING: REMOVED PAT 1 - CANCELED WITH MARCS STAR.
 REMARKS: REMOVED FIX COORDINATES REMARK. REMOVED HOLDING PAT 1, 3 SHARE SAME GROUND TRACK. REPLACED HOLDING PAT 1, ATC REQUEST WITH HOLDING PAT 2, ATC REQUEST.
 FIX USE: ADDED T220. REMOVED MARCS STAR AT ALL AFFECTED AIRPORTS. REMOVED V222 AND V68.
 REQUIRED CHARTING: REMOVED STAR.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 **NAME:** BARRY SMITH

APPROVED BY: **DATE:** 02/20/2025 **OFFICE:** AJV-A423 **NAME:** ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: GOOCH SPRINGS VORTAC **STATE:** TX **COUNTRY:** US **ICAO REGION CODE:** K4

LATITUDE/LONGITUDE: 311107.82N/0980830.69W **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	MRA	MAA
							NM	FEET		
1	GOOCH SPRINGS	AGJ	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	HOLDING ALTITUDES	TEMPLATES
							TIME DME	MIN MAX	MIN MAX
1	N	AGJ	VORTAC	014.00	194.00	R	1-1 1/2	3000 17500	4 16
2	N		WP	010.00	190.00	R		3000 17500	5 17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	312036.00N/0980651.00W	1638	4E
1	265	AAO	310842.00N/0981500.00W	1720	4E
2	200	AAO	310942.00N/0981354.00W	1687	4B
2	265	AAO	310842.00N/0981500.00W	1720	4E
2	310	AAO	311418.00N/0981915.00W	1792	4B

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	RNAV (GPS) RWY 34	KLZZ	LAMPASAS	TX (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED
 PAT 1 AND PAT 2 EVALUATED AT 265 KIAS TO SUPPORT MILITARY OPERATIONS
 ASSIGNED FACILITY MAGVAR: 5E (2010)

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	AUSTIN			KAUS	AUSTIN	TX (US)
DP	CENTEX			KAUS	AUSTIN	TX (US)
DP	LAMPS			KHLR	FORT HOOD (KILLEEN)	TX (US)
DP	CONRA			KHLR	FORT HOOD(KILLEEN)	TX (US)
DP	CONRA			KGRK	FORT HOOD/KILLEEN	TX (US)
DP	LAMPS			KGRK	FORT HOOD/KILLEEN	TX (US)
DP	CONRA			KILE	KILLEEN	TX (US)
DP	LAMPS			KILE	KILLEEN	TX (US)
DP	ALAMO			KSAT	SAN ANTONIO	TX (US)
DP	ALAMO			KSSF	SAN ANTONIO	TX (US)
EN ROUTE	V358					(US)
IAP	RNAV (GPS) RWY 19			KBMQ	BURNET	TX (US)
IAP	COPTER NDB RWY 34			KHLR	FORT HOOD (KILLEEN)	TX (US)
IAP	COPTER RNAV (GPS) RWY 34			KHLR	FORT HOOD (KILLEEN)	TX (US)
IAP	COPTER VOR RWY 32			KHLR	FORT HOOD (KILLEEN)	TX (US)
IAP	COPTER VOR RWY 33			KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	ILS OR LOC RWY 33		1	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	RADAR-1		1	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 33		2	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	VOR-A			KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 11			KGTV	GEORGETOWN	TX (US)
IAP	RNAV (GPS) RWY 36			KMNZ	HAMILTON	TX (US)
IAP	LOC RWY 1			KILE	KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 1			KILE	KILLEEN	TX (US)
IAP	VOR-A			KILE	KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 34		2	KLZZ	LAMPASAS	TX (US)
IAP	VOR-A		1	KLZZ	LAMPASAS	TX (US)
IAP	RNAV (GPS) RWY 17			KAQO	LLANO	TX (US)
IAP	ILS OR LOC RWY 15			KTPL	TEMPLE	TX (US)
STAR	BLEWE			KAUS	AUSTIN	TX (US)
STAR	KALLA			KAUS	AUSTIN	TX (US)
STAR	BLEWE			KHYI	AUSTIN	TX (US)
STAR	KALLA			KGTV	GEORGETOWN	TX (US)
STAR	BLEWE			3R9	LAKEWAY	TX (US)
STAR	KALLA			3R9	LAKEWAY	TX (US)
STAR	MARCS			KSAT	SAN ANTONIO	TX (US)
STAR	MARCS			KSKF	SAN ANTONIO	TX (US)
STAR	MARCS			KSSF	SAN ANTONIO	TX (US)
STAR	MARCS			KRND	UNIVERSAL CITY	TX (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: 15

DATE OF REVISION: 09/05/2024

REASON FOR REVISION:

1. CONTROLLING OBSTRUCTIONS: ADDED PATTERN 2 "310 AAO 311418.00N/0981915.00W 1792 4B"
2. CONTROLLING OBSTRUCTIONS: UPDATED PATTERN 2 AIRPSEED 200 OBSTRUCTION FROM " 1660 AAO 312136.00N/0980736.00W 4E" TO "1687 310942.00N/0981354.00W 4B".
3. PROCEDURES REQUIRING CLIMB-IN-HOLD: ADDED "RNAV (GPS) RWY 34 KLZZ LAMPASAS TX (US)".
4. REMOVED FIX USE: STAR KALLA FROM KAUS, K3R9, AND KGTU.
5. REMOVED FIX USE: ILS OR LOC RWY 15 KGRK.
6. REMOVED FIX USE: VOR RWY 15 KGRK.
7. REMOVED FIX USE: VOR-A KLZZ.
8. REMOVED FIX USE: RNAV (GPS) RWY 15 KGRK.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: MATTHEW TOWNSEND

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: LUFKIN VORTAC **STATE:** TX **COUNTRY:** US **ICAO REGION CODE:** K4

LATITUDE/LONGITUDE: 310944.79N/0944300.60W **TYPE:** WP

AIRSPACE DOCKET: 23-ASO-4 **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	LUFKIN	LFK	VORTAC	VH						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	SE	LFK	VORTAC	151.56	331.56	R	1	2000 17500	4 16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-001429)	311012.55N/0944631.37W	621	4D
1	310	TOWER (48-009194)	311740.96N/0944245.23W	762	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 7	KLFK	LUFKIN	TX (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR: 5E/1995.

**FIX USE:
USE TYPE**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALEXANDRIA			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	CRID			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	EL DORADO			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	LUFKIN			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	ALEXANDRIA			KGLS	GALVESTON	TX (US)
DP	CRID			KGLS	GALVESTON	TX (US)
DP	EL DORADO			KGLS	GALVESTON	TX (US)
DP	LUFKIN			KGLS	GALVESTON	TX (US)
DP	ALEXANDRIA			KAXH	HOUSTON	TX (US)
DP	CRID			KAXH	HOUSTON	TX (US)
DP	EL DORADO			KAXH	HOUSTON	TX (US)
DP	LUFKIN			KAXH	HOUSTON	TX (US)
DP	ALEXANDRIA			KCXO	HOUSTON	TX (US)
DP	CRID			KCXO	HOUSTON	TX (US)
DP	EL DORADO			KCXO	HOUSTON	TX (US)
DP	LUFKIN			KCXO	HOUSTON	TX (US)
DP	ALEXANDRIA			KDWH	HOUSTON	TX (US)
DP	CRID			KDWH	HOUSTON	TX (US)
DP	EL DORADO			KDWH	HOUSTON	TX (US)
DP	LUFKIN			KDWH	HOUSTON	TX (US)
DP	ALEXANDRIA			KEFD	HOUSTON	TX (US)
DP	CRID			KEFD	HOUSTON	TX (US)
DP	EL DORADO			KEFD	HOUSTON	TX (US)
DP	LUFKIN			KEFD	HOUSTON	TX (US)
DP	ALEXANDRIA			KHOU	HOUSTON	TX (US)
DP	CRID			KHOU	HOUSTON	TX (US)
DP	EL DORADO			KHOU	HOUSTON	TX (US)
DP	LUFKIN			KHOU	HOUSTON	TX (US)
DP	ALEXANDRIA			KIAH	HOUSTON	TX (US)
DP	CRID			KIAH	HOUSTON	TX (US)
DP	EL DORADO			KIAH	HOUSTON	TX (US)
DP	LUFKIN			KIAH	HOUSTON	TX (US)
DP	ALEXANDRIA			KIWS	HOUSTON	TX (US)
DP	CRID			KIWS	HOUSTON	TX (US)
DP	EL DORADO			KIWS	HOUSTON	TX (US)
DP	LUFKIN			KIWS	HOUSTON	TX (US)
DP	ALEXANDRIA			KSGR	HOUSTON	TX (US)
DP	CRID			KSGR	HOUSTON	TX (US)
DP	EL DORADO			KSGR	HOUSTON	TX (US)
DP	LUFKIN			KSGR	HOUSTON	TX (US)
DP	ALEXANDRIA			KTME	HOUSTON	TX (US)
DP	CRID			KTME	HOUSTON	TX (US)
DP	EL DORADO			KTME	HOUSTON	TX (US)
DP	LUFKIN			KTME	HOUSTON	TX (US)
DP	ALEXANDRIA			T41	LA PORTE	TX (US)

DP	CRIED	T41	LA PORTE	TX (US)	
DP	EL DORADO	T41	LA PORTE	TX (US)	
DP	LUFKIN	T41	LA PORTE	TX (US)	
EN ROUTE	J101			(US)	
EN ROUTE	J27			(US)	
EN ROUTE	J50			(US)	
EN ROUTE	T483			(US)	
EN ROUTE	T485			(US)	
EN ROUTE	V13			(US)	
EN ROUTE	V212			(US)	
EN ROUTE	V289			(US)	
EN ROUTE	V407			(US)	
EN ROUTE	V565			(US)	
EN ROUTE	V569			(US)	
IAP	NDB RWY 17	F17	CENTER	TX (US)	
IAP	RNAV (GPS) RWY 35	F17	CENTER	TX (US)	
IAP	RNAV (GPS) RWY 2	KDKR	CROCKETT	TX (US)	
IAP	RNAV (GPS) RWY 20	KDKR	CROCKETT	TX (US)	
IAP	RNAV (GPS) RWY 18	KJAS	JASPER	TX (US)	
IAP	ILS OR LOC RWY 7	1	KLFK	LUFKIN	TX (US)
IAP	RNAV (GPS) RWY 16		KLFK	LUFKIN	TX (US)
IAP	RNAV (GPS) RWY 25		KLFK	LUFKIN	TX (US)
IAP	RNAV (GPS) RWY 34		KLFK	LUFKIN	TX (US)
IAP	RNAV (GPS) RWY 7		KLFK	LUFKIN	TX (US)
IAP	VOR RWY 16	1	KLFK	LUFKIN	TX (US)
IAP	VOR RWY 34	1	KLFK	LUFKIN	TX (US)
IAP	ILS OR LOC RWY 36		KOCH	NACOGDOCHES	TX (US)
IAP	RNAV (GPS) RWY 18		KOCH	NACOGDOCHES	TX (US)
STAR	OHIO	T00	ANAHUAC	TX (US)	
STAR	OHIO	KLBX	ANGLETON/LAKE JACKSON	TX (US)	
STAR	OHIO	54T	BAYTOWN	TX (US)	
STAR	OHIO	KHPY	BAYTOWN	TX (US)	
STAR	OHIO	6R3	CLEVELAND	TX (US)	
STAR	CEDAR CREEK	KDFW	DALLAS-FORT WORTH	TX (US)	
STAR	OHIO	KGLS	GALVESTON	TX (US)	
STAR	OHIO	KAXH	HOUSTON	TX (US)	
STAR	OHIO	KCXO	HOUSTON	TX (US)	
STAR	OHIO	KDWH	HOUSTON	TX (US)	
STAR	OHIO	KEFD	HOUSTON	TX (US)	
STAR	HUDZY	KHOU	HOUSTON	TX (US)	
STAR	OHIO	KHOU	HOUSTON	TX (US)	
STAR	OHIO	KIAH	HOUSTON	TX (US)	
STAR	OHIO	KIWS	HOUSTON	TX (US)	
STAR	OHIO	KLVJ	HOUSTON	TX (US)	
STAR	OHIO	KSGR	HOUSTON	TX (US)	
STAR	OHIO	KTME	HOUSTON	TX (US)	
STAR	OHIO	T41	LA PORTE	TX (US)	
STAR	OHIO	T78	LIBERTY	TX (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: 02/20/2025

REASON FOR REVISION:

CHANGED AIRSPACE DOCKET FROM "#23-ASW-9" TO "#23-ASO-4".
 REMOVED STAR BITER FOR 634, KAUS, KEDC, KGTU, KRYW, 3R9 AND KHYI AIRPORTS FROM FIX USE.
 REMOVED STAR MARCS FOR KSAT, KSKF, KSSF AND KRND AIRPORTS FROM FIX USE.
 REMOVED "MILITARY IAP" FROM FIX USE.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 **NAME:** SILVIA YOUNG

APPROVED BY: **DATE:** 02/20/2025 **OFFICE:** AJV-A432 **NAME:** CASIMIR TABAKA

SIGNATURE:

Information Only

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A432	NAME: ROBERT SWINSON
APPROVED BY:	DATE: 02/20/2025	OFFICE: AJV-A432	NAME: JOSEPH ZEDER
	SIGNATURE:		

Information Only

EN ROUTE	J50				(US)
EN ROUTE	V15				(US)
EN ROUTE	V17				(US)
EN ROUTE	V358				(US)
EN ROUTE	V54				(US)
EN ROUTE	V548				(US)
IAP	LOC RWY 15		KCPT	CLEBURNE	TX (US)
IAP	RNAV (GPS) RWY 33		KCPT	CLEBURNE	TX (US)
IAP	NDB RWY 32		KCRS	CORSICANA	TX (US)
IAP	ILS OR LOC RWY 36L		KFWS	FORT WORTH	TX (US)
IAP	VOR/DME OR GPS-A		T15	MARLIN	TX (US)
IAP	RNAV (GPS) RWY 36		KJWY	MIDLOTHIAN/WAXAHACHIE	TX (US)
IAP	ILS OR LOC RWY 16		KTPL	TEMPLE	TX (US)
IAP	RNAV (GPS) RWY 16		KTPL	TEMPLE	TX (US)
IAP	ILS OR LOC RWY 19		KACT	WACO	TX (US)
IAP	VOR RWY 14		KACT	WACO	TX (US)
IAP	VOR/DME RWY 32	1	KACT	WACO	TX (US)
IAP	ILS OR LOC RWY 17L	1	KCNW	WACO	TX (US)
IAP	NDB RWY 35R		KCNW	WACO	TX (US)
IAP	RNAV (GPS) RWY 17L		KCNW	WACO	TX (US)
IAP	RNAV (GPS) RWY 35R		KCNW	WACO	TX (US)
IAP	RNAV (GPS) RWY 35	2	KPWG	WACO	TX (US)
IAP	VOR RWY 17	3	KPWG	WACO	TX (US)
STAR	DODJE		KGKY	ARLINGTON	TX (US)
STAR	BLEWE		KAUS	AUSTIN	TX (US)
STAR	BLEWE		KEDC	AUSTIN	TX (US)
STAR	BLEWE		KHYI	AUSTIN	TX (US)
STAR	RIICE		6R3	CLEVELAND	TX (US)
STAR	YEAGR		KADS	DALLAS	TX (US)
STAR	YEAGR		KDAL	DALLAS	TX (US)
STAR	DODJE		KRBD	DALLAS	TX (US)
STAR	YEAGR		KTKI	DALLAS	TX (US)
STAR	CEDAR CREEK		KDFW	DALLAS-FORT WORTH	TX (US)
STAR	YEAGR		KDFW	DALLAS-FORT WORTH	TX (US)
STAR	DODJE		KLUD	DECATUR	TX (US)
STAR	DODJE		KDTO	DENTON	TX (US)
STAR	DODJE		KAFW	FORT WORTH	TX (US)
STAR	DODJE		KFTW	FORT WORTH	TX (US)
STAR	DODJE		KFWS	FORT WORTH	TX (US)
STAR	DODJE		KNFW	FORT WORTH	TX (US)
STAR	DODJE		KGPM	GRAND PRAIRIE	TX (US)
STAR	RIICE		KCXO	HOUSTON	TX (US)
STAR	RIICE		KDWH	HOUSTON	TX (US)
STAR	RIICE		KIAH	HOUSTON	TX (US)
STAR	BLEWE		KRYW	LAGO VISTA	TX (US)
STAR	BLEWE		3R9	LAKEWAY	TX (US)
STAR	DODJE		KLNC	LANCASTER	TX (US)
STAR	RIICE		T78	LIBERTY	TX (US)
STAR	YEAGR		KHQZ	MESQUITE	TX (US)
STAR	DODJE		KJWY	MIDLOTHIAN/WAXAHACHIE	TX (US)
STAR	YEAGR		F46	ROCKWALL	TX (US)
STAR	MARCS		KSAT	SAN ANTONIO	TX (US)
STAR	MARCS		KSKF	SAN ANTONIO	TX (US)
STAR	MARCS		KSSF	SAN ANTONIO	TX (US)
STAR	BLEWE		T74	TAYLOR	TX (US)
STAR	MARCS		KRND	UNIVERSAL CITY	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 33

DATE OF REVISION: 10/31/2024

REASON FOR REVISION:

REMOVED STAR BLUBELL FOR T00, KLBX, 54T, KHPY, KGLS, KAXH, KEFD, KHOU, KIWS, KLVJ, KSGR, KTME AND T41 AIRPORTS FROM FIX USE.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 **NAME:** SILVIA YOUNG

APPROVED BY: **DATE:** 10/31/2024 **OFFICE:** AJV-A432 **NAME:** CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: WINDU STATE: TX COUNTRY: US ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 313149.93N/0970457.06W 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	FEET	MRA	MAA
1	MAVERICK	TTT	VOR/DME	VH	175.54	181.54	80.18	80.18		5000	45000
2	WACO	ACT	VORTAC	VH	120.47	129.47	12.39	12.39		5000	45000
3	CENTEX	CWK	VORTAC	VH	012.39	018.39	72.72	72.72		6000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
TTT	VOR/DME	R-176	81	5000	15100
CWK	VORTAC	R-012	73	6000	15100

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	N		WP	014.58	194.58	R	14	24000	35000	26	27

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

MAVERICK (FAC 1) AND WACO (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	JOE POOL	1, 2, 3		KGKY	ARLINGTON	TX (US)
DP	JOE POOL	1, 2, 3		KADS	DALLAS	TX (US)
DP	CURLO (RNAV)			KDAL	DALLAS	TX (US)
DP	JOE POOL	1, 2, 3		KDAL	DALLAS	TX (US)
DP	RAMBL (RNAV)			KDAL	DALLAS	TX (US)
DP	VENUS	1, 2, 3		KDAL	DALLAS	TX (US)
DP	JOE POOL	1, 2, 3		KRBD	DALLAS	TX (US)
DP	JOE POOL	1, 2, 3		KTKI	DALLAS	TX (US)
DP	JASPA (RNAV)			KDFW	DALLAS-FORT WORTH	TX (US)
DP	JOE POOL	1, 2, 3		KDFW	DALLAS-FORT WORTH	TX (US)
DP	KEENE			KDFW	DALLAS-FORT WORTH	TX (US)
DP	JOE POOL	1, 2, 3		KDTO	DENTON	TX (US)
DP	JOE POOL	1, 2, 3		KAFW	FORT WORTH	TX (US)
DP	JOE POOL	1, 2, 3		KFTW	FORT WORTH	TX (US)
DP	JOE POOL	1, 2, 3		KFWS	FORT WORTH	TX (US)
DP	JOE POOL	1, 2, 3		KNFW	FORT WORTH	TX (US)
DP	JOE POOL	1, 2, 3		KGPM	GRAND PRAIRIE	TX (US)
DP	JOE POOL	1, 2, 3		KLNC	LANCASTER	TX (US)
DP	JOE POOL	1, 2, 3		KHQZ	MESQUITE	TX (US)
STAR	BLEWE	1, 2, 3		KAUS	AUSTIN	TX (US)
STAR	SEWZY (RNAV)		1	KAUS	AUSTIN	TX (US)
STAR	QERVO (RNAV)			KCVB	CASTROVILLE	TX (US)
STAR	GABOO (RNAV)			KRYW	LAGO VISTA	TX (US)
STAR	BLEWE	1, 2, 3		3R9	LAKEWAY	TX (US)
STAR	GABOO (RNAV)			3R9	LAKEWAY	TX (US)
STAR	QERVO (RNAV)			KBAZ	NEW BRAUNFELS	TX (US)
STAR	QERVO (RNAV)			KPEZ	PLEASANTON	TX (US)
STAR	QERVO (RNAV)			5C1	SAN ANTONIO	TX (US)
STAR	MARCS	1, 2, 3		KSAT	SAN ANTONIO	TX (US)
STAR	QERVO (RNAV)			KSAT	SAN ANTONIO	TX (US)
STAR	MARCS	1, 2, 3		KSKF	SAN ANTONIO	TX (US)
STAR	QERVO (RNAV)			KSKF	SAN ANTONIO	TX (US)
STAR	MARCS	1, 2, 3		KSSF	SAN ANTONIO	TX (US)
STAR	QERVO (RNAV)			KSSF	SAN ANTONIO	TX (US)
STAR	BLEWE	1, 2, 3		KHYI	SAN MARCOS	TX (US)
STAR	GABOO (RNAV)			KHYI	SAN MARCOS	TX (US)
STAR	GABOO (RNAV)			T74	TAYLOR	TX (US)
STAR	MARCS	1, 2, 3		KRND	UNIVERSAL CITY	TX (US)
STAR	QERVO (RNAV)			KRND	UNIVERSAL CITY	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 16

DATE OF REVISION: 01/25/2024

REASON FOR REVISION:

1. FIX MAKE-UP FACILITIES, CHANGED FAC 2 WACO ACT VORTAC CLASS FROM H TO VH, MAG BRG FROM 120.49 TO 120.47, TRUE BRG FROM 129.49 TO 129.47, AND MRA FROM 8000 TO 5000.
2. FIX MAKE-UP FACILITIES, CHANGED FAC 3 CENTEX CWK VORTAC CLASS FROM H TO VH, AND MRA FROM 5000 TO 6000.
3. ESV, CHANGED CWK VORTAC MIN ALTITUDE FROM 5000 TO 6000.
4. FIX USE, DELETED STAR BRAUN (RNAV) AT KSAT, KRND, KSSF AND KSKF.
5. FIX USE, ADDED STAR QERVO (RNAV) AT KSAT, KSSF, KBAZ, KPEZ, 5C1, KSKF AND KRND.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A431	NAME: MICHAEL MCCARTNEY
APPROVED BY:	DATE: 11/30/2023	OFFICE: AJV-A431	NAME: ERIC N SUSKI
	SIGNATURE:		