

RADIO FIX AND HOLDING DATA RECORD

NAME: BROWNWOOD VOR/DME

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 315333.30N/0985726.86W

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	BROWNWOOD	BWD	VOR/DME	VL						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	N	BWD	VOR/DME	350.72	170.72	R	1	3200 6000	4 12

CONTROLLING OBSTRUCTIONS:

PAT	AIR SPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	315521.00N/0985324.00W	1972	4B
1	310	TOWER (48-031526)	315723.80N/0985223.10W	2328	1A

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S).

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR RWY 17	KBWD	BROWNWOOD	TX (US)
1	VOR RWY 35	KBWD	BROWNWOOD	TX (US)

REMARKS:

HOLDING AREA: HOLDING AT OR ABOVE 7000' WILL BE IN THE BROWNWOOD MOA'S.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAG VAR: 8E/1980.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	KINGDOM			KGKY	ARLINGTON	TX (US)
DP	KINGDOM			KCPT	CLEBURNE	TX (US)
DP	KINGDOM			KADS	DALLAS	TX (US)
DP	KINGDOM			KDAL	DALLAS	TX (US)
DP	KINGDOM			KRBD	DALLAS	TX (US)
DP	KINGDOM			KTKI	DALLAS	TX (US)
DP	KINGDOM			KDFW	DALLAS-FORT WORTH	TX (US)
DP	KINGDOM			KLUD	DECATUR	TX (US)
DP	KINGDOM			KDTO	DENTON	TX (US)
DP	KINGDOM			F41	ENNIS	TX (US)
DP	KINGDOM			50F	FORT WORTH	TX (US)
DP	KINGDOM			KAFW	FORT WORTH	TX (US)
DP	KINGDOM			KFTW	FORT WORTH	TX (US)
DP	KINGDOM			KFWS	FORT WORTH	TX (US)
DP	KINGDOM			KNFW	FORT WORTH	TX (US)
DP	KINGDOM			KGPM	GRAND PRAIRIE	TX (US)
DP	KINGDOM			KLNC	LANCASTER	TX (US)
DP	KINGDOM			KHQZ	MESQUITE	TX (US)
DP	KINGDOM			KJWY	MIDLOTHIAN/WAXAHACHIE	TX (US)
DP	KINGDOM			F46	ROCKWALL	TX (US)
DP	ALAMO			KSAT	SAN ANTONIO	TX (US)
DP	ALAMO			KSSF	SAN ANTONIO	TX (US)
IAP	LOC RWY 17			KBWD	BROWNWOOD	TX (US)
IAP	VOR RWY 17	1	1	KBWD	BROWNWOOD	TX (US)
IAP	VOR RWY 35		1	KBWD	BROWNWOOD	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12

DATE OF REVISION: 10/31/2024

REASON FOR REVISION:

1. FIX MAKE-UP FACILITIES: CLASS UPDATED FROM "L" TO "VL".
2. PATTERNS: UPDATED PAT 1 TEMPLATE MAX FROM "5" TO "12" AND RAD/CRS/BRG FROM "351.00" TO "350.72" AND CRS INBOUND FROM "171.00" TO "170.72".
3. PATTERNS: UPDATED PAT 1 HOLDING MIN FROM "3600" TO "3200".
4. CONTROLLING OBSTRUCTIONS: UPDATED FROM "200 AAO 315524.00N/0985324.00W" TO "200 AAO 315521.00N/0985324.00W".
5. CONTROLLING OBSTRUCTIONS: ADDED 310 CIH OBSTRUCTION "200 TOWER (48-031526) 315723.80N/0985223.10W".
6. PROCEDURES REQUIRING CLIMB-IN-HOLD: ADDED "PAT 1 KBWD VOR RWY 17" AND "PAT 1 KBWD VOR RWY 35".
7. FIX USE: ADDED IAP "KBWD VOR RWY 17".

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: GOBBY

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 300458.41N/0982216.91W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 22-ASW-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	SAN ANTONIO	SAT	VORTAC	VH	002.11	010.11	26.68	26.68		3500	17500
2	STONEWALL	STV	VORTAC	H	105.00	113.00	18.91	18.91		3500	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

SAN ANTONIO (FAC 1) AND STONEWALL (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALAMO	1, 2		KSAT	SAN ANTONIO	TX (US)
DP	ALAMO	1, 2		KSSF	SAN ANTONIO	TX (US)
EN ROUTE	T466					(US)
EN ROUTE	V163	1, 2				(US)
EN ROUTE	V222	1, 2				(US)

REQUIRED CHARTING: DP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 12/29/2022

REASON FOR REVISION:

TYPE: ADDED WP.

AIRSPACE DOCKET: ADDED 22-ASW-1.

FIX MAKE-UP FACILITIES: EXCHANGED FACS 1 AND 2. REMOVED FAC 3 (AGJ) - FACILITY IS ON WRONG SIDE OF V163 COP. CHANGED FACS 1 (SAT) AND 2 (STV) MAA FROM 45000 TO 17500.

ESV: REMOVED AGJ VORTAC ESV DATA - NOT APPROVED IN ESVMS.

REMARKS: ADDED SAN ANTONIO (FAC 1) TO FIX COORDINATES REMARK.

FIX USE: ADDED T466 AND REMOVED V556. CHANGED TX (US) STATE TO (US) ON V163 AND V222.

REQUIRED CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: BARRY SMITH

APPROVED BY:

DATE: 12/29/2022

OFFICE: AJV-A420

NAME: MARLON ROBINSON

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 NM FEET	MRA	MAA
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 TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES 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	4	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			KGTU	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			KGTU	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: HENLY

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 300629.04N/0982336.27W

TYPE: 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	SAN ANTONIO	SAT	VORTAC	H	359.25	007.25	28.00	28.00	3000	45000
2	CENTEX	CWK	VORTAC	H	244.38	250.38		47.71	3000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CWK	VORTAC	R-244	48	3000	15100

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

SAN ANTONIO (FAC 1) AND CENTEX (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALAMO	1, 2		KSAT	SAN ANTONIO	TX (US)
DP	ALAMO	1, 2		KSSF	SAN ANTONIO	TX (US)
EN ROUTE	J131	1, 2				(US)
EN ROUTE	J23	1, 2				(US)

REQUIRED CHARTING: DP, EN ROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 07/16/2020

REASON FOR REVISION:

UPDATED FIX USE: REMOVED GLEN ROSE STAR.
REMOVED WP FROM FIX TYPE.
REMOVED STAR FROM REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: DAN POWELL

APPROVED BY:

DATE:

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: RGNL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: JUMBO

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 313210.42N/0981048.46W

TYPE: INT, 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 FEET	MRA	MAA
1	SAN ANTONIO	SAT	VORTAC	H	359.25	007.25	114.20	114.20	18000	45000
2	BROWNWOOD	BWD	VOR/DME	L	110.00	118.00		45.14	18000	45000
3	COWBOY	CVE	VOR/DME	H	213.04	219.04	103.89	103.89	18000	45000
4	GOOCH SPRINGS	AGJ	VORTAC	H	349.66	354.66	21.09	21.09	18000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
SAT	VORTAC	R-359	115	18000	19200
BWD	VOR/DME	R-110	46	18000	45000

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

REMARKS:

BROWNWOOD (FAC 2) AND GOOCH SPRINGS (FAC 4) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALAMO	1, 2, 3, 4		KSAT	SAN ANTONIO	TX (US)
DP	ALAMO	1, 2, 3, 4		KSSF	SAN ANTONIO	TX (US)
EN ROUTE	J131	1, 2, 3, 4				(US)
EN ROUTE	J23	1, 2, 3, 4				(US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 07/16/2020

REASON FOR REVISION:

CANCELLED HOLDING; REMOVED ASSOCIATED REMARKS.
REMOVED KNEAD, GLEN ROSE, AND SLUG STARS FROM FIX USE.
REMOVED STAR FROM REQUIRED CHARTING.

04/24/2020: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 02/27/2020.

1. ADDED ENROUTE LOW AND CONTROLLER LOW TO REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: DAN POWELL

APPROVED BY:

DATE:

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: DAL TOWER, DALLAS RCO APP CON, RGNL APP CON
OTHER: