

RADIO FIX AND HOLDING DATA RECORD

NAME: CENTEX VORTAC STATE: TX COUNTRY: US ICAO REGION CODE: K4
 LATITUDE/LONGITUDE: 302242.78N/0973147.45W 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 NM	MRA FEET	MAA
1	CENTEX	CWK	VORTAC	H						45000

HOLDING: HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	S		WP	197.79	017.79	R		4	3100	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	TOWER (48-007793)	302731.00N/0974206.00W	1239	5D
1	200	TOWER (48-012369)	301837.66N/0973651.18W	1049	2C

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3300.

REMARKS:

ASSIGNED FACILTY MAGVAR: 6E (2000).
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	INDUSTRY			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	JOE POOL			KGKY	ARLINGTON	TX (US)
DP	AUSTIN			KAUS	AUSTIN	TX (US)
DP	CENTEX			KAUS	AUSTIN	TX (US)
DP	PALMS			KAUS	AUSTIN	TX (US)
DP	JOE POOL			KADS	DALLAS	TX (US)
DP	JOE POOL			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	JOE POOL			KDFW	DALLAS-FORT WORTH	TX (US)
DP	JOE POOL			KDTO	DENTON	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	INDUSTRY			KGLS	GALVESTON	TX (US)
DP	JOE POOL			KGPM	GRAND PRAIRIE	TX (US)
DP	INDUSTRY			KAXH	HOUSTON	TX (US)
DP	INDUSTRY			KCXO	HOUSTON	TX (US)
DP	INDUSTRY			KDWH	HOUSTON	TX (US)
DP	INDUSTRY			KEFD	HOUSTON	TX (US)
DP	INDUSTRY			KHOU	HOUSTON	TX (US)
DP	INDUSTRY			KIAH	HOUSTON	TX (US)
DP	INDUSTRY			KIWS	HOUSTON	TX (US)
DP	INDUSTRY			KSGR	HOUSTON	TX (US)
DP	INDUSTRY			KTME	HOUSTON	TX (US)
DP	INDUSTRY			KT41	LA PORTE	TX (US)
DP	JOE POOL			KLNC	LANCASTER	TX (US)
DP	JOE POOL			KHQZ	MESQUITE	TX (US)
DP	ALAMO			KSAT	SAN ANTONIO	TX (US)
DP	ALAMO			KSSF	SAN ANTONIO	TX (US)
EN ROUTE	J21					(US)
EN ROUTE	J25					(US)
EN ROUTE	V17					(US)
EN ROUTE	V306					(US)
EN ROUTE	V550					(US)
EN ROUTE	V558					(US)
EN ROUTE	V565					(US)
EN ROUTE	V574					(US)
EN ROUTE	V583					(US)
EN ROUTE	V76					(US)
IAP	ILS OR LOC RWY 17L			KAUS	AUSTIN	TX (US)
IAP	ILS OR LOC RWY 17R			KAUS	AUSTIN	TX (US)
IAP	ILS OR LOC RWY 35L			KAUS	AUSTIN	TX (US)
IAP	ILS OR LOC RWY 35R			KAUS	AUSTIN	TX (US)
IAP	ILS RWY 17L (CAT II/III)			KAUS	AUSTIN	TX (US)
IAP	ILS RWY 17L (SA CAT I)			KAUS	AUSTIN	TX (US)
IAP	ILS OR LOC RWY 13			KHYI	AUSTIN	TX (US)
IAP	NDB RWY 13			KHYI	AUSTIN	TX (US)

QUALITY
3
CHECKED

IAP	ILS OR LOC RWY 15	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	ILS OR LOC RWY 33	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 11	KGTU	GEORGETOWN	TX (US)
IAP	RNAV (GPS) RWY 29	KGTU	GEORGETOWN	TX (US)
IAP	RNAV (GPS) RWY 15	KRYW	LAGO VISTA	TX (US)
IAP	RNAV (GPS) RWY 16	K3R9	LAKEWAY	TX (US)
IAP	VOR/DME-A	K3R9	LAKEWAY	TX (US)
IAP	RNAV (GPS) RWY 18	K50R	LOCKHART	TX (US)
IAP	RNAV (GPS) RWY 17	KT74	TAYLOR	TX (US)
IAP	VOR/DME RWY 17	KT74	TAYLOR	TX (US)
IAP	VOR RWY 33	KTPL	TEMPLE	TX (US)
STAR	BLUBELL	KT00	ANAHUAC	TX (US)
STAR	BLUBELL	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	QTRBK	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	DODJE	KGKY	ARLINGTON	TX (US)
STAR	KNEAD	KGKY	ARLINGTON	TX (US)
STAR	BLEWE	KAUS	AUSTIN	TX (US)
STAR	KALLA	KAUS	AUSTIN	TX (US)
STAR	BLEWE	KEDC	AUSTIN	TX (US)
STAR	BLEWE	KHYI	AUSTIN	TX (US)
STAR	BLUBELL	K54T	BAYTOWN	TX (US)
STAR	BLUBELL	KHPY	BAYTOWN	TX (US)
STAR	KNEAD	KCPT	CLEBURNE	TX (US)
STAR	RIICE	K6R3	CLEVELAND	TX (US)
STAR	RIICE	KCXO	CONROE	TX (US)
STAR	KNEAD	KADS	DALLAS	TX (US)
STAR	YEAGR	KADS	DALLAS	TX (US)
STAR	KNEAD	KDAL	DALLAS	TX (US)
STAR	YEAGR	KDAL	DALLAS	TX (US)
STAR	DODJE	KRBD	DALLAS	TX (US)
STAR	KNEAD	KRBD	DALLAS	TX (US)
STAR	KNEAD	KTKI	DALLAS	TX (US)
STAR	YEAGR	KTKI	DALLAS	TX (US)
STAR	CEDAR CREEK	KDFW	DALLAS-FORT WORTH	TX (US)
STAR	GLEN ROSE	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	SLUGG	KDTO	DENTON	TX (US)
STAR	DODJE	KAFW	FORT WORTH	TX (US)
STAR	SLUGG	KAFW	FORT WORTH	TX (US)
STAR	DODJE	KFTW	FORT WORTH	TX (US)
STAR	SLUGG	KFTW	FORT WORTH	TX (US)
STAR	DODJE	KFWs	FORT WORTH	TX (US)
STAR	KNEAD	KFWs	FORT WORTH	TX (US)
STAR	DODJE	KNFW	FORT WORTH	TX (US)
STAR	SLUGG	KNFW	FORT WORTH	TX (US)
STAR	BLUBELL	KGLS	GALVESTON	TX (US)
STAR	QTRBK	KGLS	GALVESTON	TX (US)
STAR	KALLA	KGTU	GEORGETOWN	TX (US)
STAR	DODJE	KGPM	GRAND PRAIRIE	TX (US)
STAR	KNEAD	KGPM	GRAND PRAIRIE	TX (US)
STAR	BLUBELL	KAXH	HOUSTON	TX (US)
STAR	RIICE	KDWH	HOUSTON	TX (US)
STAR	BLUBELL	KEFD	HOUSTON	TX (US)
STAR	QTRBK	KEFD	HOUSTON	TX (US)
STAR	BLUBELL	KHOU	HOUSTON	TX (US)
STAR	QTRBK	KHOU	HOUSTON	TX (US)
STAR	RIICE	KIAH	HOUSTON	TX (US)
STAR	BLUBELL	KIWS	HOUSTON	TX (US)
STAR	BLUBELL	KLVJ	HOUSTON	TX (US)
STAR	BLUBELL	KSGR	HOUSTON	TX (US)
STAR	BLUBELL	KTME	HOUSTON	TX (US)
STAR	BLUBELL	KT41	LA PORTE	TX (US)
STAR	BLEWE	KRYW	LAGO VISTA	TX (US)
STAR	BLEWE	K3R9	LAKEWAY	TX (US)
STAR	KALLA	K3R9	LAKEWAY	TX (US)
STAR	DODJE	KLNC	LANCASTER	TX (US)
STAR	KNEAD	KLNC	LANCASTER	TX (US)
STAR	RIICE	KT78	LIBERTY	TX (US)
STAR	KNEAD	KHQZ	MESQUITE	TX (US)
STAR	YEAGR	KHQZ	MESQUITE	TX (US)
STAR	DODJE	KJWY	MIDLOTHIAN/WAXAHACHIE	TX (US)
STAR	YEAGR	KF46	ROCKWALL	TX (US)
STAR	BRAUN (RNAV)	KSAT	SAN ANTONIO	TX (US)
STAR	MARCS	KSAT	SAN ANTONIO	TX (US)
STAR	BRAUN (RNAV)	KSKF	SAN ANTONIO	TX (US)
STAR	MARCS	KSKF	SAN ANTONIO	TX (US)
STAR	BRAUN (RNAV)	KSSF	SAN ANTONIO	TX (US)
STAR	MARCS	KSSF	SAN ANTONIO	TX (US)
STAR	BLEWE	KT74	TAYLOR	TX (US)
STAR	BRAUN (RNAV)	KRND	UNIVERSAL CITY	TX (US)
STAR	MARCS	KRND	UNIVERSAL CITY	TX (US)

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

QUALITY
3
CHECKED

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

1. ADDED CONTROLLING OBSTACLE FOR PAT 1.
2. AMENDED UNPLANNED HOLDING AIRSPEED FROM 200 KIAS TO 230 KIAS.
3. AMENDED UNPLANNED HOLDING CONTROLLING OBSTACLE FROM 1137 MSL TOWER TO 1239 MSL TOWER.
4. AMENDED UNPLANNED HOLDING MINIMUM ALTITUDE FROM 3100 TO 3300.
5. ADDED ASSIGNED FACILITY MAGVAR 6E (2000) TO REMARKS.
6. AMENDED CITY NAME FROM SAN MARCOS TO AUSTIN ON BLEWE STAR AT KHYI IN FIX USE.
7. ADDED BLEWE STAR AT KEDC, KRYW, AND KT74 TO FIX USE.

DEVELOPED BY: DATE: 03/20/2017 OFFICE: AJV-5422 NAME: PETER GUIMOND

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: JULIE MORGAN

SIGNATURE:

*Digitally signed by***ROBERT G HAMILTON**

Aug 15, 2017

DISTRIBUTION: NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: AUS APP CON
OTHER:QUALITY
3
CHECKED

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 NM	FEET	MRA	MAA
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 MIN MAX	TEMPLATES MIN MAX
1	NE	CLL	VORTAC	063.00	243.00	R	1	2100 6000	4 5
2	W	CLL	VORTAC	279.00	099.00	R	1-1 1/2	2000 6000	4 5

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	J183					(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	KCFD	BRYAN	TX (US)
IAP	VOR/DME-A		1	KRWV	CALDWELL	TX (US)
IAP	ILS OR LOC RWY 34			KCLL	COLLEGE STATION	TX (US)
IAP	LOC BC RWY 16			KCLL	COLLEGE STATION	TX (US)
IAP	VOR OR TACAN RWY 10			KCLL	COLLEGE STATION	TX (US)
IAP	VOR/DME RWY 28		2	KCLL	COLLEGE STATION	TX (US)
IAP	NDB RWY 18			KUTS	HUNTSVILLE	TX (US)
IAP	RNAV (GPS) RWY 36			K51R	MADISONVILLE	TX (US)
STAR	BLUBELL			KT00	ANAHUAC	TX (US)
STAR	BLUBELL			KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	QTRBK			KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	BITER			KAUS	AUSTIN	TX (US)
STAR	BITER			KEDC	AUSTIN	TX (US)
STAR	BITER			KHYI	AUSTIN	TX (US)
STAR	BLUBELL			K54T	BAYTOWN	TX (US)
STAR	BLUBELL			KHPY	BAYTOWN	TX (US)

QUALITY
3
CHECKED

STAR	RIICE	K6R3	CLEVELAND	TX (US)
STAR	BLUBELL	KGLS	GALVESTON	TX (US)
STAR	QTRBK	KGLS	GALVESTON	TX (US)
STAR	BITER	KGTU	GEORGETOWN	TX (US)
STAR	BLUBELL	KAXH	HOUSTON	TX (US)
STAR	RIICE	KCXO	HOUSTON	TX (US)
STAR	RIICE	KDWH	HOUSTON	TX (US)
STAR	BLUBELL	KEFD	HOUSTON	TX (US)
STAR	QTRBK	KEFD	HOUSTON	TX (US)
STAR	BLUBELL	KHOU	HOUSTON	TX (US)
STAR	QTRBK	KHOU	HOUSTON	TX (US)
STAR	RIICE	KIAH	HOUSTON	TX (US)
STAR	BLUBELL	KIWS	HOUSTON	TX (US)
STAR	BLUBELL	KLVJ	HOUSTON	TX (US)
STAR	BLUBELL	KSGR	HOUSTON	TX (US)
STAR	BLUBELL	KTME	HOUSTON	TX (US)
STAR	BLUBELL	KT41	LA PORTE	TX (US)
STAR	BITER	KRYW	LAGO VISTA	TX (US)
STAR	BITER	K3R9	LAKEWAY	TX (US)
STAR	RIICE	KT78	LIBERTY	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 20

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

1. AMENDED CITY NAME SAN MARCOS TO AUSTIN FOR BITER STAR AT KHYI IN FIX USE.
2. DELETED RIICE STAR AT KHOU FROM FIX USE.
3. ADDED RIICE STAR AT KT78 AND K6R3 IN FIX USE.

DEVELOPED BY: **DATE:** 03/28/2017 **OFFICE:** AJV-5422 **NAME:** PETER GUIMOND

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

SIGNATURE:

Digitally signed by

ROBERT G HAMILTON

Aug 15, 2017

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HOU APP CON
OTHER:

QUALITY
3
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DARTE STATE: TX COUNTRY: US ICAO REGION CODE: K4
 LATITUDE/LONGITUDE: 304558.08N/0972706.60W 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	MRA	MAA
1	CENTEX	CWK	VORTAC	H	003.86	009.86	23.55	23.55	3600	17500
2	GOOCH SPRINGS	AGJ	VORTAC	H	120.02	125.02	43.56	43.56	3600	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
AGJ	VORTAC	R-120	44	3500	15700

HOLDING: HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING ALTITUDES MIN DME	MAX	TEMPLATES MIN	MAX
1	SW		WP	240.00	060.00	R		4	3000	6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-008378)	304310.20N/0973026.90W	1208	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:

CENTEX (FAC 1) AND GOOCH SPRINGS (FAC 2) USED TO ESTABLISH FIX COORDINATES
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CENTEX	1, 2		KAUS	AUSTIN	TX (US)
EN ROUTE	V17	1, 2				TX (US)
IAP	RNAV (GPS) RWY 13		1	KEDC	AUSTIN	TX (US)
IAP	RNAV (GPS) RWY 31		1	KEDC	AUSTIN	TX (US)
IAP	COPTER VOR RWY 33	1, 2		KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	VOR-A	1, 2		KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 11		1	KGTU	GEORGETOWN	TX (US)
IAP	RNAV (GPS) RWY 18		1	KGTU	GEORGETOWN	TX (US)
IAP	RNAV (GPS) RWY 29		1	KGTU	GEORGETOWN	TX (US)
IAP	RNAV (GPS) RWY 36		1	KGTU	GEORGETOWN	TX (US)
IAP	RNAV (GPS) RWY 1			KILE	KILLEEN	TX (US)
IAP	VOR-A	1, 2		KILE	KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 33			KTPL	TEMPLE	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

1. AMENDED FAC 1 AND FAC 2 MRA FROM 3500 TO 3600 TO MATCH AIRWAY MEA.
2. AMENDED PAT 1 MAX HOLDING ALTITUDE FROM 12000 TO 6000.

DEVELOPED BY: DATE: 03/28/2017 OFFICE: AJV-5422 NAME: PETER GUIMOND

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: JULIE MORGAN

SIGNATURE:

Digitally signed by

ROBERT G HAMILTON

DISTRIBUTION:

NFDC
 FPO: CEN
 ARTCC: ZHU
 ATC FACILITY: AUS APP CON
 OTHER: USAASA

Aug 15, 2017



RADIO FIX AND HOLDING DATA RECORD

NAME: ILEXY STATE: TX COUNTRY: US ICAO REGION CODE: K4
 LATITUDE/LONGITUDE: 302110.00N/0970445.46W TYPE: WP, 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	MRA FEET	MAA
1	CENTEX	CWK	VORTAC	H	087.66	093.66	23.44	23.44	2300	17500
2	INDUSTRY	IDU	VORTAC	L	303.57	311.57		35.88	2300	17500
3	COLLEGE STATION	CLL	VORTAC	L	238.31	246.31	37.34	37.34	2300	17500
4	NAVASOTA	TNV	VOR/DME	H	266.41	274.41	53.16	53.16	5000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
TNV	VOR/DME	R-266	54	5000	17500

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

INDUSTRY (FAC 2) AND NAVASOTA (FAC 4) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CENTEX	1, 2, 3		KAUS	AUSTIN	TX (US)
DP	ILEXY (RNAV)			KAUS	AUSTIN	TX (US)
DP	ILEXY (RNAV)			KEDC	AUSTIN	TX (US)
DP	ILEXY (RNAV)			KHYI	AUSTIN	TX (US)
DP	ILEXY (RNAV)			KGTU	GEORGETOWN	TX (US)
DP	ILEXY (RNAV)			KRYW	LAGO VISTA	TX (US)
DP	ILEXY (RNAV)			K3R9	LAKEWAY	TX (US)
DP	ILEXY (RNAV)			KT74	TAYLOR	TX (US)
EN ROUTE	V306	1, 2, 3				(US)
IAP	RNAV (GPS) RWY 17			KGYB	GIDDINGS	TX (US)
STAR	BLUBELL	1, 2, 3		KT00	ANAHUAC	TX (US)
STAR	BLUBELL	1, 2, 3		KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	QTRBK	1, 2, 3, 4		KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	BLUBELL	1, 2, 3		K54T	BAYTOWN	TX (US)
STAR	BLUBELL	1, 2, 3		KHPY	BAYTOWN	TX (US)
STAR	RIICE	1, 3		K6R3	CLEVELAND	TX (US)
STAR	BLUBELL	1, 2, 3		KGLS	GALVESTON	TX (US)
STAR	QTRBK	1, 2, 3, 4		KGLS	GALVESTON	TX (US)
STAR	BLUBELL	1, 2, 3		KAXH	HOUSTON	TX (US)
STAR	RIICE	1, 3		KCXO	HOUSTON	TX (US)
STAR	RIICE	1, 3		KDWH	HOUSTON	TX (US)
STAR	BLUBELL	1, 2, 3		KEFD	HOUSTON	TX (US)
STAR	QTRBK	1, 2, 3, 4		KEFD	HOUSTON	TX (US)
STAR	BLUBELL	1, 2, 3		KHOU	HOUSTON	TX (US)
STAR	KIDDZ (RNAV)			KHOU	HOUSTON	TX (US)
STAR	QTRBK	1, 2, 3, 4		KHOU	HOUSTON	TX (US)
STAR	DRLLR (RNAV)			KIAH	HOUSTON	TX (US)
STAR	GUSHR (RNAV)			KIAH	HOUSTON	TX (US)
STAR	MSCOT (RNAV)			KIAH	HOUSTON	TX (US)
STAR	RIICE	1, 3		KIAH	HOUSTON	TX (US)
STAR	TTORO (RNAV)			KIAH	HOUSTON	TX (US)
STAR	BLUBELL	1, 2, 3		KIWS	HOUSTON	TX (US)
STAR	BLUBELL	1, 2, 3		KLVJ	HOUSTON	TX (US)
STAR	BLUBELL	1, 2, 3		KSGR	HOUSTON	TX (US)
STAR	BLUBELL	1, 2, 3		KTME	HOUSTON	TX (US)
STAR	BLUBELL	1, 2, 3		KT41	LA PORTE	TX (US)
STAR	RIICE	1, 3		KT78	LIBERTY	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

AMENDED CITY NAME SAN MARCOS TO AUSTIN FOR ILEXY DP AT KHYI IN FIX USE.

DEVELOPED BY: DATE: 03/29/2017 OFFICE: AJV-5422 NAME: PETER GUIMOND



APPROVED BY: DATE: OFFICE: AJV-5420 NAME: JULIE MORGAN

SIGNATURE: *Digitally signed by*
ROBERT G HAMILTON
Aug 15, 2017

DISTRIBUTION: NFDC
 FPO: CEN
 ARTCC: ZHU
 ATC FACILITY: HOU APP CON, AUS APP CON
 OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: JAYJO

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 302013.74N/0964854.05W

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	FAC FEET	MRA	MAA
1	CENTEX	CWK	VORTAC	H	087.64	093.64	37.19	37.19		2300	23000
2	COLLEGE STATION	CLL	VORTAC	L	224.00	232.00	25.98	25.98		2300	23000
3	INDUSTRY	IDU	VORTAC	L	322.10	330.10	26.33	26.33		2300	23000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CLL	VORTAC	R-224	26	18400	23000
IDU	VORTAC	R-322	27	18500	23000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

CENTEX (FAC 1) AND INDUSTRY (FAC 3) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CENTEX	1, 2, 3		KAUS	AUSTIN	TX (US)
DP	ILEXY (RNAV)			KAUS	AUSTIN	TX (US)
DP	ILEXY (RNAV)			KEDC	AUSTIN	TX (US)
DP	ILEXY (RNAV)			KHYI	AUSTIN	TX (US)
DP	ILEXY (RNAV)			KGTU	GEORGETOWN	TX (US)
DP	ILEXY (RNAV)			KRYW	LAGO VISTA	TX (US)
DP	ILEXY (RNAV)			K3R9	LAKEWAY	TX (US)
DP	ILEXY (RNAV)			KT74	TAYLOR	TX (US)
EN ROUTE	V306	1, 2, 3				(US)
IAP	RNAV (GPS) RWY 17			KGYB	GIDDINGS	TX (US)
IAP	RNAV (GPS) RWY 35			KGYB	GIDDINGS	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

1. REMOVED STAR FROM REQUIRED CHARTING.
2. DELETED BLUEBELL STAR AT KHOU FROM FIX USE.
3. AMENDED CITY NAME SAN MARCOS TO AUSTIN FOR ILEXY DP AT KHYI IN FIX USE.
4. ADDED REMARK: CENTEX (FAC 1) AND INDUSTRY (FAC 3) USED TO ESTABLISH FIX COORDINATES.

DEVELOPED BY:

DATE: 03/29/2017

OFFICE: AJV-5422

NAME: PETER GUIMOND

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

Digitally signed by

ROBERT G HAMILTON

Aug 15, 2017

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: AUS APP CON
OTHER:

QUALITY
3
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MUNCH **STATE:** TX **COUNTRY:** US **ICAO REGION CODE:** K4
LATITUDE/LONGITUDE: 303435.02N/0971740.61W **TYPE:** WP, 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	FAC FEET	MRA	MAA
1	CENTEX	CWK	VORTAC	H	039.78	045.78	17.00	17.00		4000	23000
2	INDUSTRY	IDU	VORTAC	L	306.48	314.48	53.17	53.17		4000	23000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
IDU	VORTAC	R-306	54	4000	23000

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

REMARKS:

CENTEX (FAC 1) AND INDUSTRY (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CENTEX	1, 2		KAUS	AUSTIN	TX (US)
DP	SAYBR (RNAV)			KAUS	AUSTIN	TX (US)
DP	SAYBR (RNAV)			KEDC	AUSTIN	TX (US)
DP	SAYBR (RNAV)			KHYI	AUSTIN	TX (US)
DP	SAYBR (RNAV)			KGTU	GEORGETOWN	TX (US)
DP	SAYBR (RNAV)			KRYW	LAGO VISTA	TX (US)
DP	SAYBR (RNAV)			K3R9	LAKEWAY	TX (US)
DP	SAYBR (RNAV)			KT74	TAYLOR	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 08/17/2017

REASON FOR REVISION:

AMENDED CITY NAME SAN MARCOS TO AUSTIN FOR SAYBR DP AT KHYI IN FIX USE.

DEVELOPED BY: **DATE:** 03/29/2017 **OFFICE:** AJV-5422 **NAME:** PETER GUIMOND

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

SIGNATURE:

Digitally signed by

ROBERT G HAMILTON

Aug 15, 2017

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: AUS APP CON
OTHER:

QUALITY
 3
 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: NAVASOTA VOR/DME **STATE:** TX **COUNTRY:** US **ICAO REGION CODE:** K4

LATITUDE/LONGITUDE: 301718.70N/0960329.66W **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	NAVASOTA	TNV	VOR/DME	H						45000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NW	TNV	VOR/DME	297.95	117.95	R	1		2000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-010397)	301820.00N/0960141.00W	807	4D

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	CRID			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	INDUSTRY			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	LEONA			KLBX	ANGLETON/LAKE JACKSON	TX (US)
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	DARTZ (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	TRI-GATE			KDFW	DALLAS-FORT WORTH	TX (US)
DP	JOE POOL			KDTO	DENTON	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	CRID			KGLS	GALVESTON	TX (US)
DP	INDUSTRY			KGLS	GALVESTON	TX (US)
DP	LEONA			KGLS	GALVESTON	TX (US)
DP	JOE POOL			KGPM	GRAND PRAIRIE	TX (US)
DP	CRID			KAXH	HOUSTON	TX (US)
DP	INDUSTRY			KAXH	HOUSTON	TX (US)
DP	LEONA			KAXH	HOUSTON	TX (US)
DP	CRID			KCXO	HOUSTON	TX (US)
DP	INDUSTRY			KCXO	HOUSTON	TX (US)
DP	LEONA			KCXO	HOUSTON	TX (US)
DP	CRID			KDWH	HOUSTON	TX (US)
DP	INDUSTRY			KDWH	HOUSTON	TX (US)
DP	LEONA			KDWH	HOUSTON	TX (US)
DP	CRID			KEFD	HOUSTON	TX (US)
DP	INDUSTRY			KEFD	HOUSTON	TX (US)
DP	LEONA			KEFD	HOUSTON	TX (US)
DP	CRID			KHOU	HOUSTON	TX (US)
DP	INDUSTRY			KHOU	HOUSTON	TX (US)
DP	LEONA			KHOU	HOUSTON	TX (US)
DP	CRID			KIAH	HOUSTON	TX (US)
DP	INDUSTRY			KIAH	HOUSTON	TX (US)
DP	LEONA			KIAH	HOUSTON	TX (US)
DP	CRID			KIWS	HOUSTON	TX (US)
DP	INDUSTRY			KIWS	HOUSTON	TX (US)
DP	LEONA			KIWS	HOUSTON	TX (US)
DP	CRID			KSGR	HOUSTON	TX (US)
DP	INDUSTRY			KSGR	HOUSTON	TX (US)
DP	LEONA			KSGR	HOUSTON	TX (US)
DP	CRID			KTME	HOUSTON	TX (US)
DP	INDUSTRY			KTME	HOUSTON	TX (US)

QUALITY
3
CHECKED

DP	LEONA	KTME	HOUSTON	TX (US)
DP	CRIED	KT41	LA PORTE	TX (US)
DP	INDUSTRY	KT41	LA PORTE	TX (US)
DP	LEONA	KT41	LA PORTE	TX (US)
DP	JOE POOL	KLNC	LANCASTER	TX (US)
DP	JOE POOL	KHQZ	MESQUITE	TX (US)
EN ROUTE	J87			(US)
EN ROUTE	V15			(US)
EN ROUTE	V212			(US)
EN ROUTE	V306			(US)
EN ROUTE	V369			(US)
EN ROUTE	V571			(US)
EN ROUTE	V574			(US)
IAP	LOC BC RWY 16	KCLL	COLLEGE STATION	TX (US)
IAP	VOR OR TACAN RWY 10	KCLL	COLLEGE STATION	TX (US)
IAP	VOR/DME RWY 28	KCLL	COLLEGE STATION	TX (US)
IAP	ILS OR LOC RWY 14	KCXO	HOUSTON	TX (US)
IAP	NDB RWY 14	KCXO	HOUSTON	TX (US)
IAP	LOC RWY 17R	1 KDWH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 26L	KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 26R	KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 33R	KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 8L	KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 8R	KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 9	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (CAT II & III)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (SA CAT 1)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26R (CAT II & III)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26R (SA CAT 1)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 8L (CAT II & III)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 8L (SA CAT 1)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 8R (SA CAT I & II)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 9 (SA CAT I & II)	KIAH	HOUSTON	TX (US)
IAP	VOR-D	1 KIWS	HOUSTON	TX (US)
IAP	VOR-A	K60R	NAVASOTA	TX (US)
STAR	BLUEBELL	KT00	ANAHUAC	TX (US)
STAR	BLUEBELL	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	QTRBK	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	BITER	K3R9	AUSTIN	TX (US)
STAR	BITER	KAUS	AUSTIN	TX (US)
STAR	BITER	KEDC	AUSTIN	TX (US)
STAR	BITER	KHYI	AUSTIN	TX (US)
STAR	BLUEBELL	K54T	BAYTOWN	TX (US)
STAR	BLUEBELL	KHPY	BAYTOWN	TX (US)
STAR	WHAEL	K6R3	CLEVELAND	TX (US)
STAR	BLUEBELL	KGLS	GALVESTON	TX (US)
STAR	QTRBK	KGLS	GALVESTON	TX (US)
STAR	BITER	KGTU	GEORGETOWN	TX (US)
STAR	BLUEBELL	KAXH	HOUSTON	TX (US)
STAR	RIICE	KCXO	HOUSTON	TX (US)
STAR	WHAEL	KCXO	HOUSTON	TX (US)
STAR	RIICE	KDWH	HOUSTON	TX (US)
STAR	WHAEL	KDWH	HOUSTON	TX (US)
STAR	BLUEBELL	KEFD	HOUSTON	TX (US)
STAR	QTRBK	KEFD	HOUSTON	TX (US)
STAR	BLUEBELL	KHOU	HOUSTON	TX (US)
STAR	QTRBK	KHOU	HOUSTON	TX (US)
STAR	RIICE	KHOU	HOUSTON	TX (US)
STAR	DUUUK	KIAH	HOUSTON	TX (US)
STAR	RIICE	KIAH	HOUSTON	TX (US)
STAR	BLUEBELL	KIWS	HOUSTON	TX (US)
STAR	BLUEBELL	KLVJ	HOUSTON	TX (US)
STAR	BLUEBELL	KSGR	HOUSTON	TX (US)
STAR	BLUEBELL	KTME	HOUSTON	TX (US)
STAR	BLUEBELL	KT41	LA PORTE	TX (US)
STAR	BITER	KRYW	LAGO VISTA	TX (US)
STAR	RIICE	KT78	LIBERTY	TX (US)
STAR	WHAEL	KT78	LIBERTY	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

1. ADDED LOC RWY 17R AT KDWH TO FIX USE.
2. ADDED DUUUK STAR AT KIAH TO FIX USE.
3. ADDED QTRBK STAR AT KHOU, KLBX, KGLS, AND KEFD TO FIX USE.
4. ADDED BLUEBELL STAR KTME TO FIX USE.
5. ADDED RIICE STAR AT KT78 TO FIX USE.
6. AMENDED CITY NAME SAN MARCOS TO AUSTIN ON BITER STAR AT KHYI IN FIX USE.

DEVELOPED BY:

DATE: 03/28/2017

OFFICE: AJV-5422

NAME: PETER GUIMOND



APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

*Digitally signed by***ROBERT G HAMILTON**

Aug 15, 2017

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZHU

ATC FACILITY: HOU APP CON

OTHER:

QUALITY
3
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WACO VORTAC STATE: TX COUNTRY: US ICAO REGION CODE: K4
 LATITUDE/LONGITUDE: 313944.39N/0971608.53W 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	WACO	ACT	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 TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NW	ACT	VORTAC	328.00	148.00	R	1		3000	6000	4	5
2	N		WP	018.17	198.17	R		4	2500	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-010156)	314411.97N/0971928.01W	1065	5D
1	310	TOWER (48-008113)	314740.57N/0972718.05W	1299	5D
2	200	TOWER (48-010156)	314411.97N/0971928.01W	1065	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR/DME RWY 32	KACT	WACO	TX (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 ASSIGNED FACILITY MAGVAR: 9E (1965).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LEONA			KLBX	ANGLETON/LAKE JACKSON	TX (US)
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	JASPA (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	NELYN (RNAV)			KDFW	DALLAS-FORT WORTH	TX (US)
DP	JOE POOL			KDTO	DENTON	TX (US)
DP	LAMPS			KHLR	FORT HOOD (KILLEEN)	TX (US)
DP	LAMPS			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	LEONA			KGLS	GALVESTON	TX (US)
DP	JOE POOL			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	LAMPS			KILE	KILLEEN	TX (US)
DP	LEONA			KT41	LA PORTE	TX (US)
DP	JOE POOL			KLNC	LANCASTER	TX (US)
DP	JOE POOL			KHQZ	MESQUITE	TX (US)
DP	TAKE-OFF MINIMUMS			KPWG	WACO	TX (US)
EN ROUTE	J21					(US)
EN ROUTE	J25					(US)
EN ROUTE	J50					(US)
EN ROUTE	V15					(US)
EN ROUTE	V17					(US)
EN ROUTE	V358					(US)

QUALITY
3
CHECKED

EN ROUTE	V54			(US)
EN ROUTE	V548			(US)
IAP	LOC/DME RWY 15	KCPT	CLEBURNE	TX (US)
IAP	RNAV (GPS) RWY 33	KCPT	CLEBURNE	TX (US)
IAP	NDB RWY 14	KCRS	CORSICANA	TX (US)
IAP	NDB RWY 32	KCRS	CORSICANA	TX (US)
IAP	VOR/DME OR GPS-A	KT15	MARLIN	TX (US)
IAP	NDB-A	KLXY	MEXIA	TX (US)
IAP	RNAV (GPS) RWY 36	KJWY	MIDLOTHIAN/WAXAHACHIE	TX (US)
IAP	ILS OR LOC RWY 15	KTPL	TEMPLE	TX (US)
IAP	RNAV (GPS) RWY 15	KTPL	TEMPLE	TX (US)
IAP	VOR RWY 33	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	KACT	WACO	TX (US)
IAP	ILS OR LOC RWY 17L	1 KCNW	WACO	TX (US)
IAP	NDB RWY 35R	1 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	KPWG	WACO	TX (US)
STAR	BLUBELL	KT00	ANAHUAC	TX (US)
STAR	BLUBELL	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	QTRBK	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	DODJE	KGKY	ARLINGTON	TX (US)
STAR	KNEAD	KGKY	ARLINGTON	TX (US)
STAR	BLEWE	KAUS	AUSTIN	TX (US)
STAR	BLEWE	KEDC	AUSTIN	TX (US)
STAR	BLEWE	KHYI	AUSTIN	TX (US)
STAR	BLUBELL	K54T	BAYTOWN	TX (US)
STAR	BLUBELL	KHPY	BAYTOWN	TX (US)
STAR	KNEAD	KCPT	CLEBURNE	TX (US)
STAR	RIICE	K6R3	CLEVELAND	TX (US)
STAR	KNEAD	KADS	DALLAS	TX (US)
STAR	YEAGR	KADS	DALLAS	TX (US)
STAR	KNEAD	KDAL	DALLAS	TX (US)
STAR	YEAGR	KDAL	DALLAS	TX (US)
STAR	DODJE	KRBD	DALLAS	TX (US)
STAR	KNEAD	KRBD	DALLAS	TX (US)
STAR	KNEAD	KTKI	DALLAS	TX (US)
STAR	YEAGR	KTKI	DALLAS	TX (US)
STAR	BOOVE (RNAV)	KDFW	DALLAS-FORT WORTH	TX (US)
STAR	CEDAR CREEK	KDFW	DALLAS-FORT WORTH	TX (US)
STAR	GLEN ROSE	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	SLUGG	KDTO	DENTON	TX (US)
STAR	DODJE	KAFW	FORT WORTH	TX (US)
STAR	SLUGG	KAFW	FORT WORTH	TX (US)
STAR	DODJE	KFTW	FORT WORTH	TX (US)
STAR	SLUGG	KFTW	FORT WORTH	TX (US)
STAR	DODJE	KFWs	FORT WORTH	TX (US)
STAR	KNEAD	KFWs	FORT WORTH	TX (US)
STAR	DODJE	KNFW	FORT WORTH	TX (US)
STAR	SLUGG	KNFW	FORT WORTH	TX (US)
STAR	BLUBELL	KGLS	GALVESTON	TX (US)
STAR	QTRBK	KGLS	GALVESTON	TX (US)
STAR	DODJE	KGPM	GRAND PRAIRIE	TX (US)
STAR	KNEAD	KGPM	GRAND PRAIRIE	TX (US)
STAR	BLUBELL	KAXH	HOUSTON	TX (US)
STAR	RIICE	KCXO	HOUSTON	TX (US)
STAR	RIICE	KDWH	HOUSTON	TX (US)
STAR	BLUBELL	KEFD	HOUSTON	TX (US)
STAR	QTRBK	KEFD	HOUSTON	TX (US)
STAR	BLUBELL	KHOU	HOUSTON	TX (US)
STAR	QTRBK	KHOU	HOUSTON	TX (US)
STAR	RIICE	KIAH	HOUSTON	TX (US)
STAR	BLUBELL	KIWS	HOUSTON	TX (US)
STAR	BLUBELL	KLVJ	HOUSTON	TX (US)
STAR	BLUBELL	KSGR	HOUSTON	TX (US)
STAR	BLUBELL	KTME	HOUSTON	TX (US)
STAR	BLUBELL	KT41	LA PORTE	TX (US)
STAR	BLEWE	KRYW	LAGO VISTA	TX (US)
STAR	BLEWE	K3R9	LAKEWAY	TX (US)
STAR	DODJE	KLNC	LANCASTER	TX (US)
STAR	KNEAD	KLNC	LANCASTER	TX (US)
STAR	RIICE	KT78	LIBERTY	TX (US)
STAR	KNEAD	KHQZ	MESQUITE	TX (US)
STAR	YEAGR	KHQZ	MESQUITE	TX (US)
STAR	DODJE	KJWY	MIDLOTHIAN/WAXAHACHIE	TX (US)
STAR	YEAGR	KF46	ROCKWALL	TX (US)
STAR	BRAUN (RNAV)	KSAT	SAN ANTONIO	TX (US)
STAR	MARCS	KSAT	SAN ANTONIO	TX (US)
STAR	BRAUN (RNAV)	KSKF	SAN ANTONIO	TX (US)
STAR	MARCS	KSKF	SAN ANTONIO	TX (US)
STAR	BRAUN (RNAV)	KSSF	SAN ANTONIO	TX (US)
STAR	MARCS	KSSF	SAN ANTONIO	TX (US)
STAR	BLEWE	KT74	TAYLOR	TX (US)
STAR	BRAUN (RNAV)	KRND	UNIVERSAL CITY	TX (US)

QUALITY
3
CHECKED

STAR MARCS KRND UNIVERSAL CITY TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 22

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

1. ADDED ASSIGNED FACILITY MAGVAR TO REMARKS.
2. AMENDED CLEVELAND MUNICIPAL STAR TO RIICE STAR AT K6R3 IN FIX USE.
3. AMENDED CITY NAME SAN MARCOS TO AUSTIN ON BLEWE STAR AT KHYI IN FIX USE.
4. ADDED BLEWE STAR AT KEDC, KRYW, AND KT74 TO FIX USE.

DEVELOPED BY: **DATE:** 03/28/2017 **OFFICE:** AJV-5422 **NAME:** PETER GUIMOND

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

SIGNATURE:

Digitally signed by

ROBERT G HAMILTON

Aug 15, 2017

DISTRIBUTION: **NFDC**
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