

STAR	BLEWE		KEDC	AUSTIN	TX (US)
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.

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: MARCS **STATE:** TX **COUNTRY:** US **ICAO REGION CODE:** K4
LATITUDE/LONGITUDE: 295352.04N/0975140.70W **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	H	055.99	063.99	34.82	34.82		3100	45000
2	CENTEX	CWK	VORTAC	H	205.02	211.02		33.55		2900	45000
3	STONEWALL	STV	VORTAC	H	104.60	112.60	47.70	47.70		4500	45000
4	COLLEGE STATION	CLL	VORTAC	L	232.87	240.87	86.00	86.00		6000	13000
5	HUMBLE	IAH	VORTAC	H	264.08	269.08	131.20	131.20		19000	45000
6	JUNCTION	JCT	VORTAC	H	103.91	111.91		109.96		18000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
STV	VORTAC	R-105	48	4500	16100
CLL	VORTAC	R-233	86	6000	13000
IAH	VORTAC	R-264	132	19000	45000

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 DME	MIN	MAX	TEMPLATES MIN	MAX
1	NE	SAT	VORTAC	055.99	235.99	R	1		6000	24000	7	21

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	295654.00N/0975645.00W	1096	4B

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

SAN ANTONIO (FAC 1) AND CENTEX (FAC 2) AND STONEWALL (FAC 3) USED TO ESTABLISH FIX COORDINATES. PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BORRN (RNAV)			T00	ANAHUAC	TX (US)
DP	BORRN (RNAV)			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	BORRN (RNAV)			54T	BAYTOWN	TX (US)
DP	BORRN (RNAV)			KHPY	BAYTOWN	TX (US)
DP	BORRN (RNAV)			6R3	CLEVELAND	TX (US)
DP	BORRN (RNAV)			KGLS	GALVESTON	TX (US)
DP	BORRN (RNAV)			KAXH	HOUSTON	TX (US)
DP	BORRN (RNAV)			KCXO	HOUSTON	TX (US)
DP	BORRN (RNAV)			KDWH	HOUSTON	TX (US)
DP	BORRN (RNAV)			KEFD	HOUSTON	TX (US)
DP	RETYR (RNAV)			KHOU	HOUSTON	TX (US)
DP	BNDTO (RNAV)			KIAH	HOUSTON	TX (US)
DP	PITZZ (RNAV)			KIAH	HOUSTON	TX (US)
DP	BORRN (RNAV)			KIWS	HOUSTON	TX (US)
DP	BORRN (RNAV)			KLVJ	HOUSTON	TX (US)
DP	BORRN (RNAV)			KSGR	HOUSTON	TX (US)
DP	BORRN (RNAV)			KTME	HOUSTON	TX (US)
DP	BORRN (RNAV)			T41	LA PORTE	TX (US)
DP	BORRN (RNAV)			T78	LIBERTY	TX (US)
EN ROUTE	J15	2, 5, 6				(US)
EN ROUTE	J27	1, 3				(US)
EN ROUTE	T220					(US)
EN ROUTE	T466					(US)
IAP	RNAV (GPS) RWY 35			KBAZ	NEW BRAUNFELS	TX (US)
STAR	QERVO (RNAV)			KCVB	CASTROVILLE	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, 4	1	KSAT	SAN ANTONIO	TX (US)
STAR	QERVO (RNAV)			KSAT	SAN ANTONIO	TX (US)
STAR	MARCS	1, 2, 3, 4	1	KSKF	SAN ANTONIO	TX (US)
STAR	QERVO (RNAV)			KSKF	SAN ANTONIO	TX (US)
STAR	MARCS	1, 2, 3, 4	1	KSSF	SAN ANTONIO	TX (US)
STAR	QERVO (RNAV)			KSSF	SAN ANTONIO	TX (US)
STAR	MARCS	1, 2, 3, 4	1	KRND	UNIVERSAL CITY	TX (US)

STAR QERVO (RNAV) 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: 20

DATE OF REVISION: 02/20/2025

REASON FOR REVISION:

AIRSPACE DOCKET: ADDED 24-ASW-4.

FIX MAKE-UP FACILITIES: REMOVED FAC 4 (IDU) - IDU VOR MON. ADDED FAC 4 (CLL) AND ASSOCIATED DATA.

ESV: REMOVED IDU VORTAC ESV DATA. ADDED CLL VORTAC ESV DATA - ESV IS PENDING.

HOLDING: CHANGED PAT 1 MAX ALTITUDE/TEMPLATE FROM 14000/12 TO 24000/21. UPDATED PAT 1 CONTROLLING OBSTRUCTION DATA.

REMOVED PAT 2.

REMARKS: REMOVED INDUSTRY (FAC 4) FROM FIX COORDINATES REMARK. REMOVED HOLDING PAT 1 OBSTACLE LOCATED 1.58 NM FROM INNER EDGE OF THE SECONDARY.

FIX USE: ADDED T220. REMOVED V68 AND V222. REMOVED INDUSTRY DP FROM ALL AFFECTED AIRPORTS. ADDED PAT 1 TO MARCS STAR AT ALL AFFECTED AIRPORTS.

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:		