

RADIO FIX AND HOLDING DATA RECORD

NAME: ELKAY

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 292237.43N/0982838.12W

TYPE: DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	SAN ANTONIO	SAT	VORTAC	VH	174.99	182.99	16.00	16.00		6000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LEMIG	1		KSAT	SAN ANTONIO	TX (US)
STAR	LEMIG	1		KSKF	SAN ANTONIO	TX (US)
STAR	LEMIG	1		KSSF	SAN ANTONIO	TX (US)
STAR	LEMIG	1		KRND	UNIVERSAL CITY	TX (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 08/07/2025

REASON FOR REVISION:

1. FIX MOVED E 23 FEET FROM "292237.44N/0982838.37W" TO "292237.43N/0982838.12W".
2. CHANGED FAC 1 (SAT) MAG/TRUE BRG FROM "175.01/183.01" TO "174.99/182.99".
3. REMOVED FAC 2 (THX) FROM FIX MAKE-UP FACILITIES - VOR MON.
4. REMOVED "THX" FROM EXPANDED SERVICE VOLUME (ESV).
4. REMOVED "SAN ANTONIO (FAC 1) AND THREE RIVERS (FAC 2) USED TO ESTABLISH FIX COORDINATES" FROM REMARKS.
5. REMOVED "FAC 2" FROM LEMIG STAR, ADDED "LEMIG AT KSKF, KSSF, AND KRND" IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: ROBERT SWINSON

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

QUALITY
14
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LEMIG

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 285837.91N/0983003.52W

TYPE: WP, DME

AIRSPACE DOCKET: 24-ASW-13

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	COTULLA	COT	VORTAC	VL	037.43	046.43	44.85	44.85	2500	17500
2	SAN ANTONIO	SAT	VORTAC	H	174.99	182.99	39.96	39.96	3000	17500
3	LAREDO	LRD	VORTAC	VH	019.23	028.23	101.98	101.98	10000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
COT	VORTAC	R-037	45	2500	15100
LRD	VORTAC	R-019	102	10000	18000

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

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	SAT	VORTAC	174.99	354.99	R	10	10000 14000	14 14

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (48-010040)	285700.00N/0983706.00W	990	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

COTULLA (FAC 1) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T499					(US)
EN ROUTE	V550	1, 2				(US)
IAP	RNAV (GPS) RWY 14			0XA5	CAMPBELLTON	TX (US)
IAP	RNAV (GPS) RWY 32			KSSF	SAN ANTONIO	TX (US)
STAR	LEMIG	1, 2, 3	1	KSAT	SAN ANTONIO	TX (US)
STAR	LEMIG	1, 2, 3	1	KSKF	SAN ANTONIO	TX (US)
STAR	LEMIG	1, 2, 3	1	KSSF	SAN ANTONIO	TX (US)
STAR	LEMIG	1, 2, 3	1	KRND	UNIVERSAL CITY	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 08/07/2025

REASON FOR REVISION:

1. TYPE: REMOVED "INT".
2. AIRSPACE DOCKET: CHANGED 23-ASW-16 TO 24-ASW-13.
3. FIX MAKE-UP FACILITIES: REMOVED FAC 2 (THX), ADDED FAC 3 (LRD) - THX VOR MON, LEMIG STAR TRANSITION.
4. ESV: CHANGED COT VORTAC MAX ALTITUDE FROM 5600 TO 15100 - MAX ALTITUDE OF DME COMPONENT.
5. ESV: ADDED LRD VORTAC LRD R-019, 102, 10000, 18000 - ESTABLISHED FOR LEMIG STAR.
6. HOLDING: REMOVED PAT 1 200 KIAS CONTROLLING OBSTRUCTION DATA. CHANGED PAT 1 LEG LENGTH FROM 1 MIN TO 10 DME. CHANGED MIN HOLDING ALT TO "10000" AND MIN/MAX TEMPLATE FROM "6/12" TO "14/14".
7. REMARKS: ADDED COTULLA (FAC 1) USED TO ESTABLISH FIX COORDINATES.
8. FIX USE: REMOVED V161 AND V568. REMOVED FAC 3 FROM V550 AND KSAT LEMIG STAR. ADDED LEMIG STAR AT AIRPORTS KSKF, KSSF AND KRND.
9. REQUIRED CHARTING: REMOVED SPECIAL IAP.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

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NAME: ROBERT SWINSON

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

QUALITY
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RADIO FIX AND HOLDING DATA RECORD

NAME: WELLN

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 284829.33N/0983039.42W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	CORPUS CHRISTI	CRP	VORTAC	VH	305.05	314.05	78.19	78.19		6000	17500
2	SAN ANTONIO	SAT	VORTAC	VH	174.99	182.99	50.09	50.09		3000	17500
3	COTULLA	COT	VORTAC	VL	048.00	057.00	38.19	38.19		3000	17500

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LEMIG	1, 2, 3		KSAT	SAN ANTONIO	TX (US)
STAR	LEMIG	1, 2, 3		KSKF	SAN ANTONIO	TX (US)
STAR	LEMIG	1, 2, 3		KSSF	SAN ANTONIO	TX (US)
STAR	LEMIG	1, 2, 3		KRND	UNIVERSAL CITY	TX (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/07/2025

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: ROBERT SWINSON

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

QUALITY
14
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WENDL

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 291136.67N/0982917.73W

TYPE: WP, 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	SAN ANTONIO	SAT	VORTAC	VH	175.00	183.00	27.00	27.00		5000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 31L			KSAT	SAN ANTONIO	TX (US)
STAR	LEMIG	1		KSAT	SAN ANTONIO	TX (US)
STAR	LEMIG	1		KSKF	SAN ANTONIO	TX (US)
STAR	LEMIG	1		KSSF	SAN ANTONIO	TX (US)
STAR	LEMIG	1		KRND	UNIVERSAL CITY	TX (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 08/07/2025

REASON FOR REVISION:

1. REMOVED "INT" FROM TYPE.
2. REMOVED FAC 2 (THX) FROM FIX MAKE-UP FACILITIES - VOR MON.
3. REMOVED "THX" IN EXPANED SERVICE VOLUME (ESV).
4. REMOVED "SAN ANTONIO (FAC 1) AND THREE RIVERS (FAC 2) USED TO ESTABLISH FIX COORDINATES" FROM REMARKS.
5. REMOVED "FAC 2" FROM LEMIG STAR, ADDED "LEMIG AT KSKF, KSSF, KRND" IN FIX USE.

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