

RADIO FIX AND HOLDING DATA RECORD

NAME: ELKAY

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 292237.44N/0982838.37W

TYPE: WP, 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	SAN ANTONIO	SAT	VORTAC	H	175.01	183.01	16.00	16.00		6000	17500
2	THREE RIVERS	THX	VORTAC	L	333.83	341.83	54.95	54.95		6000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
THX	VORTAC	R-334	55	6000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

SAN ANTONIO (FAC 1) AND THREE RIVERS (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 13R			KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 22			KSAT	SAN ANTONIO	TX (US)
STAR	LEMIG	1, 2		KSAT	SAN ANTONIO	TX (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. ADDED REMARK SAN ANTONIO (FAC 1) AND THREE RIVERS (FAC 2) USED TO ESTABLISH FIX COORDINATES.
2. CHANGED FIX USE KSAT RNAV (RNP) Z RWY 12R TO 13R.

DEVELOPED BY: DATE: 09/28/2016

OFFICE: AJV-5423

NAME: STEVE NELSON

APPROVED BY: DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: EMBOW

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 291417.49N/0982146.68W

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	SAN ANTONIO	SAT	VORTAC	H	160.00	168.00	24.83	24.83		3000	17500
2	STINSON	SSF	VOR	L	096.93	105.93		4.40		3000	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	S	SAT	VORTAC	160.00	340.00	R	1		3100	14000	5	11
2	S		WP	164.00	344.00	R		4	3100	14000	5	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-012261)	291612.00N/0981556.00W	2049	4D
2	200	TOWER (48-012261)	291612.00N/0981556.00W	2049	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V163	1, 2				TX (US)
IAP	ILS OR LOC RWY 13R	1, 2	1	KSAT	SAN ANTONIO	TX (US)
IAP	ILS RWY 13R (CAT II)	1, 2	1	KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (GPS) Y RWY 13R		2	KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (GPS) Y RWY 22		2	KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 13R		2	KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 22		2	KSAT	SAN ANTONIO	TX (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. CHANGED HOLDING PATTERN 2 RAD/CRS INBOUND FROM 160.00/340.00 TO 164.00/344.00.
2. ADDED REMARK SAN ANTONIO (FAC 1) AND STINSON (FAC 2) USED TO ESTABLISH FIX COORDINATES.
3. CHANGED FIX USE KSAT ILS OR LOC RWY 12R, ILS RWY 12R (CAT II), RNAV (GPS) Y RWY 12R, RNAV (RNP) Z RWY 12R TO RWY 13R.

DEVELOPED BY: **DATE:** 09/28/2016 **OFFICE:** AJV-5423 **NAME:** STEVE NELSON

APPROVED BY: **DATE:** **OFFICE:** AJV-5420 **NAME:** TONY LAWSON

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: MEDIN **STATE:** TX **COUNTRY:** US **ICAO REGION CODE:** K4
LATITUDE/LONGITUDE: 294824.91N/0985401.09W **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	MAA
1	SAN ANTONIO	SAT	VORTAC	H	285.14	293.14	24.92	24.92	4100	17500
2	STONEWALL	STV	VORTAC	H	195.00	203.00		25.99	4100	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	W	SAT	VORTAC	285.14	105.14	L	1-1 1/2		4100	17500	6	17
2	W		WP	285.14	105.14	L		5	4100	8000	6	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-005697)	295027.00N/0984933.00W	3048	5E
2	200	TOWER (48-005697)	295027.00N/0984933.00W	3048	5E

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST
PAT 2 ATC REQUEST TO AVOID RANDOLPH MOA.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.
PAT 1-ATC DO NOT CHART.

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
EN ROUTE	V68	1, 2				TX (US)
IAP	RNAV (GPS) RWY 17		2	K5C1	SAN ANTONIO	TX (US)
IAP	RNAV (GPS) RWY 35		2	K5C1	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 13R			KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 22			KSAT	SAN ANTONIO	TX (US)
STAR	CENTERPOINT	1, 2		KSAT	SAN ANTONIO	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 03/02/2017

REASON FOR REVISION:

1. ADDED REMARK SAN ANTONIO (FAC 1) AND STONEWALL (FAC 2) USED TO ESTABLISH FIX COORDINATES.
2. CHANGED FIX USE KSAT RNAV (RNP) Z RWY 12R TO 13R.

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