

RADIO FIX AND HOLDING DATA RECORD

NAME: AIROR

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294540.87N/0981403.75W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	NE		WP	036.97	216.97	R	5	6000	9000	6	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-001049)	294936.40N/0980700.00W	1728	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
NAME CHANGED FROM ERROR TO AIROR

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 22			KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 22			KSAT	SAN ANTONIO	TX (US)
STAR	CRVZA (RNAV)		1	KSAT	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)		1	KSAT	SAN ANTONIO	TX (US)
STAR	POPPO (RNAV)		1	KSAT	SAN ANTONIO	TX (US)
STAR	QERVO (RNAV)		1	KSAT	SAN ANTONIO	TX (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 11/27/2025

REASON FOR REVISION:

1. CHANGED FIX NAME FROM ERROR TO AIROR.
2. UPDATED HOLDING PATTERN 1 CONTROLLING OBSTRUCTION FROM 1660 AAO TO 1728 TOWER (48-001049).

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: BARBARA GORMAN

APPROVED BY:

DATE: 10/23/2025

OFFICE: AJV-A430

NAME: CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: AREEA

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294202.57N/0982458.21W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE

IAP

STAR

USE TITLE

RNAV (GPS) Y RWY 22

QERVO (RNAV)

FAC

PAT

AIRPORT IDENT

KSAT

KSAT

CITY

SAN ANTONIO

SAN ANTONIO

STATE

TX (US)

TX (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 01/25/2024

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: PATRICK COMBS

APPROVED BY:

DATE: 08/10/2023

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: BRRBA

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294259.42N/0981644.33W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE

IAP

IAP

USE TITLE

RNAV (GPS) Y RWY 22

RNAV (RNP) Z RWY 22

FAC

PAT

AIRPORT IDENT

KSAT

KSAT

CITY

SAN ANTONIO

SAN ANTONIO

STATE

TX (US)

TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 01/25/2024

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: PHILLIP BRANDENBURG

APPROVED BY:

DATE: 08/10/2023

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: BRSQT

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 293853.56N/0982047.39W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE

IAP

IAP

USE TITLE

RNAV (GPS) Y RWY 22

RNAV (RNP) Z RWY 22

FAC

PAT

AIRPORT IDENT

KSAT

KSAT

CITY

SAN ANTONIO

SAN ANTONIO

STATE

TX (US)

TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 01/25/2024

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: PHILLIP BRANDENBURG

APPROVED BY:

DATE: 08/10/2023

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

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: 24-ASW-13

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	VH	160.00	168.00	24.83	24.83	3000	17500
2	STINSON	SSF	VOR	VL	102.94	105.94		4.40	3000	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	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	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-012261)	291611.55N/0981555.96W	2049	4D
2	200	TOWER (48-012261)	291611.55N/0981555.96W	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	T545					(US)
EN ROUTE	V163	1, 2				(US)
IAP	ILS OR LOC RWY 13R	1, 2	1, 2	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) X 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)
IAP	VOR RWY 32	1, 2		KSSF	SAN ANTONIO	TX (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18

DATE OF REVISION: 08/07/2025

REASON FOR REVISION:

AIRSPACE DOCKET: ADDED 24-ASW-13.
FIX USE: ADDED T545.

05/13/25: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 05/08/25.

1. RECORD REVISION NUMBER: CHANGED FROM 19 TO 18.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: BARRY SMITH

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: IMIKE

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 292622.94N/0983307.91W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE

IAP

IAP

USE TITLE

RNAV (GPS) Y RWY 22

RNAV (RNP) Z RWY 22

FAC

PAT

AIRPORT IDENT

KSAT

KSAT

CITY

SAN ANTONIO

SAN ANTONIO

STATE

TX (US)

TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 11/15/2012

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 05/04/2012

OFFICE: AJV-353

NAME: BETTY RICHARDS

APPROVED BY:

DATE: 10/05/2012

OFFICE: AJV-353

NAME: LARRY STROUT

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZHU

ATC FACILITY: SAT APP CON

OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: INOUT

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 293531.91N/0982406.60W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE

IAP

IAP

USE TITLE

RNAV (GPS) Y RWY 22

RNAV (RNP) Z RWY 22

FAC

PAT

AIRPORT IDENT

KSAT

KSAT

CITY

SAN ANTONIO

SAN ANTONIO

STATE

TX (US)

TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 11/27/2025

REASON FOR REVISION:

1. FIX MOVED 5.74 FEET SOUTHWEST. UPDATED COORDINATES FROM 293531.94N/0982406.54W TO 293531.91N/0982406.56W.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: BARBARA GORMAN

APPROVED BY:

DATE: 10/23/2025

OFFICE: AJV-A430

NAME: CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: QUUUUE

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294020.06N/0981921.88W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE

IAP

IAP

USE TITLE

RNAV (GPS) Y RWY 22

RNAV (RNP) Z RWY 22

FAC

PAT

AIRPORT IDENT

KSAT

KSAT

CITY

SAN ANTONIO

SAN ANTONIO

STATE

TX (US)

TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 01/25/2024

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: PHILLIP BRANDENBURG

APPROVED BY:

DATE: 08/10/2023

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: TYRYN

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 293552.28N/0981647.25W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE

IAP

STAR

USE TITLE

RNAV (GPS) Y RWY 22

CRVZA (RNAV)

FAC

PAT

AIRPORT IDENT

KSAT

KSAT

CITY

SAN ANTONIO

SAN ANTONIO

STATE

TX (US)

TX (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 01/25/2024

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: WILLIAM MELTON

APPROVED BY:

DATE: 08/10/2023

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE: