

RADIO FIX AND HOLDING DATA RECORD

NAME: ADDYY

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 293957.69N/0982701.49W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
DNKIN (RNAV)
POPPO (RNAV)

FAC

PAT

AIRPORT IDENT
KSAT
KSAT

CITY
SAN ANTONIO
SAN ANTONIO

STATE
TX (US)
TX (US)

REQUIRED CHARTING: STAR

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: AIRBL

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 295520.25N/0991251.52W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DNKIN (RNAV)			KCVB	CASTROVILLE	TX (US)
STAR	DNKIN (RNAV)			KBAZ	NEW BRAUNFELS	TX (US)
STAR	DNKIN (RNAV)			KPEZ	PLEASANTON	TX (US)
STAR	DNKIN (RNAV)			5C1	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KSAT	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KSKF	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KSSF	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KRND	UNIVERSAL CITY	TX (US)

REQUIRED CHARTING: STAR

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:

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: DIIAW

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 293239.58N/0984119.54W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
DNKIN (RNAV)
POPPO (RNAV)

FAC

PAT

AIRPORT IDENT
KSAT
KSAT

CITY
SAN ANTONIO
SAN ANTONIO

STATE
TX (US)
TX (US)

REQUIRED CHARTING: STAR

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: DNKIN

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294959.32N/0985817.60W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DNKIN (RNAV)			KCVB	CASTROVILLE	TX (US)
STAR	DNKIN (RNAV)			KBAZ	NEW BRAUNFELS	TX (US)
STAR	DNKIN (RNAV)			KPEZ	PLEASANTON	TX (US)
STAR	DNKIN (RNAV)			5C1	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KSAT	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KSKF	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KSSF	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KRND	UNIVERSAL CITY	TX (US)

REQUIRED CHARTING: STAR

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: DYNMO

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 293821.67N/0984333.24W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
DNKIN (RNAV)
POPPO (RNAV)

FAC

PAT

AIRPORT IDENT
KSAT
KSAT

CITY
SAN ANTONIO
SAN ANTONIO

STATE
TX (US)
TX (US)

REQUIRED CHARTING: STAR

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: FOLLK

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 295156.28N/0990335.41W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DNKIN (RNAV)			KCVB	CASTROVILLE	TX (US)
STAR	DNKIN (RNAV)			KBAZ	NEW BRAUNFELS	TX (US)
STAR	DNKIN (RNAV)			KPEZ	PLEASANTON	TX (US)
STAR	DNKIN (RNAV)			5C1	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KSAT	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KSKF	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KSSF	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KRND	UNIVERSAL CITY	TX (US)

REQUIRED CHARTING: STAR

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: GERVN

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294218.42N/0983653.96W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE

IAP

STAR

STAR

USE TITLE

RNAV (RNP) X RWY 22

DNKIN (RNAV)

POPPO (RNAV)

FAC

PAT

AIRPORT IDENT

KSAT

KSAT

KSAT

CITY

SAN ANTONIO

SAN ANTONIO

SAN ANTONIO

STATE

TX (US)

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: HARDD

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 292122.05N/0983803.63W

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 FEET	MRA	MAA
1	SAN ANTONIO	I-SAT	LOC/DME		216.78	220.78	14.77	14.77	3500	5200
2	STINSON	SSF	VOR	L	297.34	300.34		11.60	3500	5200

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	SW		WP	216.67	036.67	R	5	5000 8000	6 9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-007753)	291439.85N/0984428.08W	1211	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

SAN ANTONIO (FAC 1) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ILS DME COORDINATES: 293232.95N/0982658.69W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 4	1, 2		KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (GPS) Y RWY 4			KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 4			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: 10

DATE OF REVISION: 08/07/2025

REASON FOR REVISION:

FIX MAKE-UP: FAC 2 STINSON (SSF) VOR MAG BRG CHANGED FROM "291.34" TO "297.34".

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: TRAVIS BRISTOW

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: IXION

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294417.90N/0982244.62W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
DNKIN (RNAV)
POPPO (RNAV)

FAC

PAT

AIRPORT IDENT
KSAT
KSAT

CITY
SAN ANTONIO
SAN ANTONIO

STATE
TX (US)
TX (US)

REQUIRED CHARTING: STAR

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: KEENM

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 292614.79N/0982908.07W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE

STAR

STAR

STAR

USE TITLE

CRVZA (RNAV)

DNKIN (RNAV)

POPP0 (RNAV)

FAC

PAT

AIRPORT IDENT

KSAT

KSAT

KSAT

CITY

SAN ANTONIO

SAN ANTONIO

SAN ANTONIO

STATE

TX (US)

TX (US)

TX (US)

REQUIRED CHARTING: STAR

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: LDRON

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294606.00N/0984859.76W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE

USE TITLE

FAC

PAT

AIRPORT IDENT

CITY

STATE

IAP	ILS OR LOC RWY 13R			KSAT	SAN ANTONIO	TX (US)
IAP	ILS RWY 13R (CAT II)			KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (GPS) Y RWY 13R			KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 13R			KSAT	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KSAT	SAN ANTONIO	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:

RADIO FIX AND HOLDING DATA RECORD

NAME: LOWWN

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 292512.67N/0984133.08W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
DNKIN (RNAV)
POPPO (RNAV)

FAC

PAT

AIRPORT IDENT
KSAT
KSAT

CITY
SAN ANTONIO
SAN ANTONIO

STATE
TX (US)
TX (US)

REQUIRED CHARTING: STAR

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: MANOO

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294128.65N/0984716.93W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE
STAR

USE TITLE
DNKIN (RNAV)

FAC

PAT

AIRPORT IDENT
KSAT

CITY
SAN ANTONIO

STATE
TX (US)

REQUIRED CHARTING: STAR

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: MOPPP

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 301034.24N/1000027.33W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LENGTH DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	W		WP	286.00	106.00	R		12	24000	45000	20	30

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DNKIN (RNAV)			KCVB	CASTROVILLE	TX (US)
STAR	DNKIN (RNAV)			KBAZ	NEW BRAUNFELS	TX (US)
STAR	DNKIN (RNAV)			KPEZ	PLEASANTON	TX (US)
STAR	DNKIN (RNAV)			5C1	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KSAT	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KSKF	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KSSF	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KRND	UNIVERSAL CITY	TX (US)

REQUIRED CHARTING: STAR, EN ROUTE HIGH, CONTROLLER HIGH

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: PATII

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 293149.05N/0983544.70W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
DNKIN (RNAV)
POPPO (RNAV)

FAC

PAT

AIRPORT IDENT
KSAT
KSAT

CITY
SAN ANTONIO
SAN ANTONIO

STATE
TX (US)
TX (US)

REQUIRED CHARTING: STAR

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: RBNSN

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294355.67N/0984349.16W

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	FEET	MRA	MAA
1	SAN ANTONIO	I-ANT	LOC/DME		307.60	311.60	18.66	18.66		5000	6000
2	STONEWALL	STV	VORTAC	VH	174.59	182.59	28.44	28.44		5000	45000
3	SAN ANTONIO	SAT	VORTAC	VH	282.63	290.63		15.01		5000	45000
4	CENTER POINT	CSI	VORTAC	VH	106.14	114.14	27.71	27.71		6000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-ANT	LOC/DME	R-308	19	5000	6000

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	NW		WP	307.60	127.60	R		5	6000	9000	6	10

CONTROLLING OBSTRUCTIONS:

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

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

SAN ANTONIO (FAC 1) AND STONEWALL (FAC 2) USED TO ESTABLISH FIX COORDINATES.
ILS DME COORDINATES: 293129.09N/0982749.96W.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 13R	1		KSAT	SAN ANTONIO	TX (US)
IAP	ILS RWY 13R (CAT II)	1		KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (GPS) Y RWY 13R			KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 13R			KSAT	SAN ANTONIO	TX (US)
STAR	CENTERPOINT	1, 2, 3, 4		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)
STAR	STONEWALL	1, 2, 3		KSAT	SAN ANTONIO	TX (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/07/2025

REASON FOR REVISION:

ADDED FAC 4 CSI VORTAC TO FIX MAKE-UP FACILITIES.
ADDED STAR CENTERPOINT FOR KSAT AIRPORT IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SILVIA YOUNG

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A432

NAME: JOSEPH ZEDER

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: RESST

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294459.07N/0985011.15W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DNKIN (RNAV)			KCVB	CASTROVILLE	TX (US)
STAR	DNKIN (RNAV)			KBAZ	NEW BRAUNFELS	TX (US)
STAR	DNKIN (RNAV)			KPEZ	PLEASANTON	TX (US)
STAR	DNKIN (RNAV)			5C1	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KSKF	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KSSF	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)			KRND	UNIVERSAL CITY	TX (US)

REQUIRED CHARTING: STAR

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: SLOW

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 292608.28N/0982052.13W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	SAN ANTONIO	I-IZR	LOC/DME		127.61	131.61	8.09	9.88		2700	5300

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

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	SE		WP	127.61	307.61	R	5	4000 7000	5 9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-007712)	291739.00N/0981532.00W	2043	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

DME COORDINATES: 293129.09N/0982749.96
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 31L	1		KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (GPS) Y RWY 31L			KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 31L			KSAT	SAN ANTONIO	TX (US)
STAR	CRVZA (RNAV)		1	KSAT	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)		1	KSAT	SAN ANTONIO	TX (US)
STAR	POPPA (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: ORIG

DATE OF REVISION: 01/25/2024

REASON FOR REVISION:

8/16/2023: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 04/17/2023.
1. FIX MAKE-UP: UPDATED MAA FROM 4500 TO 5200.

8/29/2023: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 04/17/2023.
1. FIX MAKE-UP: UPDATED MAA FROM 5200 TO 5300.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: PATRICK COMBS

APPROVED BY:

DATE: 01/25/2024

OFFICE: AJV-A423

NAME: MICHAEL GARRITY

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: TIMYY

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 292729.39N/0983918.55W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
DNKIN (RNAV)
POPP0 (RNAV)

FAC

PAT

AIRPORT IDENT
KSAT
KSAT

CITY
SAN ANTONIO
SAN ANTONIO

STATE
TX (US)
TX (US)

REQUIRED CHARTING: STAR

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: TRNKS

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 292236.79N/0982426.77W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE

IAP

IAP

STAR

STAR

USE TITLE

ILS OR LOC RWY 31L

RNAV (GPS) Y RWY 31L

DNKIN (RNAV)

POPPO (RNAV)

FAC

PAT

AIRPORT IDENT

KSAT

KSAT

KSAT

KSAT

CITY

SAN ANTONIO

SAN ANTONIO

SAN ANTONIO

SAN ANTONIO

STATE

TX (US)

TX (US)

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: TRVLL

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 303552.41N/0994902.51W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

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	NW		WP	293.49	113.49	L	10	18000	24000	17	20

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUESTED.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DNKIN (RNAV)		1	KCVB	CASTROVILLE	TX (US)
STAR	POPPO (RNAV)		1	KCVB	CASTROVILLE	TX (US)
STAR	DNKIN (RNAV)		1	KBAZ	NEW BRAUNFELS	TX (US)
STAR	POPPO (RNAV)		1	KBAZ	NEW BRAUNFELS	TX (US)
STAR	DNKIN (RNAV)		1	KPEZ	PLEASANTON	TX (US)
STAR	POPPO (RNAV)		1	KPEZ	PLEASANTON	TX (US)
STAR	DNKIN (RNAV)		1	5C1	SAN ANTONIO	TX (US)
STAR	POPPO (RNAV)		1	5C1	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)		1	KSAT	SAN ANTONIO	TX (US)
STAR	POPPO (RNAV)		1	KSAT	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)		1	KSKF	SAN ANTONIO	TX (US)
STAR	POPPO (RNAV)		1	KSKF	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)		1	KSSF	SAN ANTONIO	TX (US)
STAR	POPPO (RNAV)		1	KSSF	SAN ANTONIO	TX (US)
STAR	DNKIN (RNAV)		1	KRND	UNIVERSAL CITY	TX (US)
STAR	POPPO (RNAV)		1	KRND	UNIVERSAL CITY	TX (US)

REQUIRED CHARTING: STAR, EN ROUTE HIGH, CONTROLLER HIGH

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: