

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR OR TACAN STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT ID</u> SJT	<u>PROCEDURE NAME</u> VOR OR TACAN-A	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> SAN ANGELO	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 1919	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>
<u>FACILITY</u> SJT	<u>COORDINATES OF FACILITIES</u> 312229.84N/1002717.53W	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 10E <u>EPOCH YEAR</u> 1965 <u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
FELUV/15.00 DME CW	IAF	NIYGO/15.00 DME					15.00 DME ARC		4000
JIGEM/15.00 DME CCW	IAF	NIYGO/15.00 DME					15.00 DME ARC		4000
NIYGO/15.00 DME	IF	ILRUH/8.40 DME					049.71 (SJT R-230)	6.60	3800

MISSED APPROACH

MAP:

CRTLA 2.89 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2800 THEN CLIMBING RIGHT TURN TO 4000 ON SJT R-135 TO FELUV/SJT 15 DME AND HOLD

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)
2. PROFILE STARTS AT NIYGO/15.00 DME
3. FAC: 049.71

FAF: ILRUH/8.40 DME

DIST FAF TO MAP:

DIST FAF TO THLD:
4. MIN ALT: NIYGO/15.00 DME 4000, ILRUH/8.40 DME 3800
8. MSA FROM: SJT VORTAC 4300



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART NOTE: CIRCLING NA FOR CATS D AND E W OF RWY 18-36.

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 314.58 INBOUND.
FAS OBST: 2353 AAO 311733N/1003427W.
CHART SJT R-135 AT FELUV.
CHART SJT R-309 AT JIGEM.
FAC CROSSES MIDPOINT OF RWY 03-21.

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4, CAT E 800-2 1/2

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
CIRCLING	2620	1	701	2620	1	701	2620	2	701	2620	2 1/4	701	2620	2 1/2	701

CHANGES - REASONS

05/26/26: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 04/02/26.
1. ADDITIONAL FLIGHT DATA: ADDED "FAC CROSSES MIDPOINT OF RWY 03-21".

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER:

FLIGHT CHECKED BY

OFFICE DATE

DEVELOPED BY
ARTHUR ULVESTAD

OFFICE DATE
AJV-A422 04/02/2026

APPROVED BY
RAKE MCGRAW

OFFICE DATE
AJV-A422

TITLE
MANAGER
QUALITY
39
CHECKED

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
SJT	VOR OR TACAN-A	ORIG	SAN ANGELO	TX	1919	SJT

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL: ARC

FROM FELUV/15.00 DME CW **TO** NIYGO/15.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>				<u>HMAS</u>		
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
WINDMILL (48-023658)	310635.72N/1003914.66W	2956	250	50	4D	1000					4000
TERRAIN	311303.00N/1004618.00W	2545 (2500)								AS1500	4000

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL: ARC

FROM JIGEM/15.00 DME CCW **TO** NIYGO/15.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>			<u>HMAS</u>		
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	311303.00N/1004618.00W	2746	215	8	4B	1000					3800
TERRAIN	311303.00N/1004618.00W	2545 (2500)								AS1500	4000

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

QUALITY
39
CHECKED

INTERMEDIATE

FROM

NIYGO/15.00 DME

TO

ILRUH/8.40 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
	6.60										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	311206.00N/1003912.00W	2691	215	8	4B	500				AT609	3800
TERRAIN	311206.00N/1003912.00W	2490 (2500)								AS1000	3500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL

FROM

ILRUH/8.40 DME

TO

CRTLA 2.89 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
	5.11		CRTLA 2.89 DME								
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	311733.00N/1003427.00W	2353	215	8	4B	250					2620

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSSED APPROACH

FROM

CRTLA 2.89 DME

TO

FELUV

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 2370			
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				4000
AAO	311403.00N/1001927.00W	2674	215	8	4B	1000					3700
TERRAIN	311403.00N/1001927.00W	2473 (2500)								AS1500	4000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☒ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☒ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (48-025384)	312111.85N/1003055.83W	1.32	701	2056	20	3	1A	300		SI	2620
CATEGORY B											
TRANSMISSION_LINE (48-195293)	312103.01N/1002747.06W	1.87	701	2067	50	20	2C	300		SI	2620
CATEGORY C											
TOWER (48-001287)	312441.66N/1002830.77W	2.95	701	2183	50	20	2C	300		SI	2620
CATEGORY D											
TOWER (48-023478)	311901.88N/1002610.55W	3.86	701	2268	20	10	1B	300		SI	2620
CATEGORY E											
AAO	311709.00N/1002821.00W	4.83	701	2310	215	8	4B	300			2620

CIRCLING REMARKS:



MSA

CENTER

SJT VORTAC

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (48-004098)	312201.60N/1000249.90W	081	20.9	3283	250	50	4D	1000			4300

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

MAF TOWER

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	SJT	24	SJT		Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS

WX REMARKS:

BACKUP ALTIMETER SOURCE NOT REQUIRED DUE TO AVAILABILITY OF NWS AT THE AIRPORT WHICH QUALIFIES AS A REDUNDANCY PER FPT.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
SJT VORTAC		24	1

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW09 - MIRL (PCL)	BSC-G	
RW27 - MIRL (PCL)	BSC-G	
RW18 - REIL (PCL), MIRL (PCL), PAPI-4L (PCL)	NPI-G	
RW36 - MIRL (PCL), PAPI-4L (PCL)	NPI-G	
RW03 - MALSR (PCL), HIRL (PCL)	PIR-G	APPROACH
RW21 - HIRL (PCL), VASI-4L	PIR-G	ROLL OUT

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD

ON CENTERLINE

FT FROM THRESHOLD

FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

CRITICAL TEMPERATURES



CRITICAL LOW

CRITICAL HIGH

ACT

APT ISA

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VEGETATION HEIGHT: 55 FEET

PROCEDURE REQUESTED BY THE MILITARY.

ORDER 8260.3 CHAPTER 2 APPLIED TO 2382 AAO 311703.00N/1003536.00W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	MAP	TO 1000FT POINT	3.84
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.46
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	059.71
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	2200
DISTANCE FROM	MAP	TO 1500FT POINT	1.60
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	059.71
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	2500

THRESHOLD COORDINATES (IF STR-IN)

ARP COORDINATES 312127.89N/1002946.70W

RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 36 DISTANCE 0.69 NM

FAF COORDINATES 311814.79N/1003545.53W

FIX NAME COORDINATES

REMARKS



<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
SJT	VOR OR TACAN-A	ORIG	SAN ANGELO	TX	1919	SJT
PART E: PREPARED BY						
<u>NAME</u>			<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>	
ARTHUR ULVESTAD			AJV-A422	04/02/2026	AERONAUTICAL INFORMATION SPECIALIST	

