

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
NDB STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.27**

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</u>		<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>
SAN ANGELO RGNL/MATHIS FIELD		KSJT	NDB RWY 3	15	SAN ANGELO	TX
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
1919	1917	NDB RWY 3	14A	04/20/2000	5E	2020
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
SJ			02/28/2019			

**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>
EDWAR INT		SJ NDB					264.98	10.29	4100
CHILD INT		SJ NDB					330.63	14.35	4100
SJT VORTAC		SJ NDB					217.59	8.44	4100
TANKR INT		SJ NDB					154.08	10.81	4100

**MISSED APPROACH**

**MAP:**

5.74 NM AFTER SJ NDB

**MISSED APPROACH INSTRUCTIONS:**

CLIMBING RIGHT TURN TO 4000 DIRECT SJ NDB AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. PT L    **SIDE OF COURSE** 218.10    **OUTBOUND** 4100    **FT WITHIN** 10    **MILES OF** SJ NDB (IAF)  
2.  
3. **FAC:** 038.10    **FAF:** SJ NDB    **DIST FAF TO MAP:** 5.74    **DIST FAF TO THLD:** 5.74  
4. **MIN ALT:** SJ NDB 3900  
8. **MSA FROM:** SJ NDB 4300

**EQUIPMENT REQUIREMENTS NOTES:**

**NOTES:**

CHART NOTE: FOR INOPERATIVE ALS, INCREASE CAT A/B VISIBILITY TO RVR 5500, AND CAT C/D TO 2 SM.



ADDITIONAL FLIGHT DATA:  
SJ NDB TO RW03: 3.18/45  
HOLD SW, RT, 038.10 INBOUND  
CHART: ASR.  
CHART CIRCLING ICON.  
FAS OBST: 2333 AAO 311800N/1003414W.  
2370 AAO 311708N/1003457W.

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, NA WHEN CONTROL TOWER CLOSED.

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
S-03	2640	4000	723	2640	4000	723	2640	1 5/8	723	2640	1 5/8	723			
CIRCLING	2640	1	721	2640	1	721	2640	2	721	2700	2 1/2	781			

- CHANGES - REASONS
- 1. FINAL CRS CHANGE FROM 034.10M TO 038.10M - UPDATED MAGVAR E9/1980 TO E5/2020.
  - 2. SJT NDB HOLDING CRS CHANGE FROM 034.10M TO 038.10M - UPDATED MAGVAR E9/1980 TO E5/2020.
  - 3. TANKR FEEDER CRS CHANGE FROM 150.08M TO 154.08M - UPDATED MAGVAR E9/1980 TO E5/2020.
  - 4. CHILD FEEDER CRS CHANGE FROM 326.63M TO 330.63M - UPDATED MAGVAR E9/1980 TO E5/2020.
  - 5. EDWAR FEEDER CRS CHANGE FROM 260.98M TO 264.987M - UPDATED MAGVAR E9/1980 TO E5/2020.
  - 6. KSJT ELEV CHANGED FROM 1917 TO 1919 - UPDATED AIRNAV INFO.
  - 7. CAT A CIRCLING MDA/HAA CHANGED FROM 2460/543 TO 2640/723 - NEW OBSTACLE EVALUATION.
  - 8. CAT B CIRCLING MDA/HAA CHANGED FROM 2460/543 TO 2640/723 - NEW OBSTACLE EVALUATION.
  - 9. CAT C CIRCLING MDA/HAA RAISED FROM 2460/543 - 1 1/2 TO 2640/723 -1 5/8 - 2183 TOWER, NEW CIRCLING CRITERIA USED IAW 8260.3C 2-7-1.
  - 10. CAT D CIRCLING MDA/HAA RAISED FROM 2480/563 - 2 TO 2700/781 - 2 1/2 - 2391 AAO, NEW CIRCLING CRITERIA USED IAW 8260.3C 2-7-1.
  - 11. FINAL CONTROLLING OBSTACLE CHANGED FROM 2026 POLE TO 2333 AAO - NEW OBSTACLE EVALUATION.
  - 12. PT MINIMUM SEGMENT ALTITUDE CHANGED FROM 4000 TO 4100 - HIGH TERRAIN FOR AIRSPACE INCREASED FROM 2517 (2500) TO 2618 (2600) DUE TO NEW IAPA EVALUATION.
  - 13. CHILD, EDWAR SJT AND TANKR FEEDER MINIMUM SEGMENT ALTITUDES CHANGED FROM 4000 TO 4100 - PT MINIMUM SEGMENT ALTITUDE INCREASED TO 4100.
  - 14. CHARTED CIRCLING ICON - IAW 8260.3C 2-7-1.
  - 15. ADDED INOP NOTE - VISCHECK INFORMATION.
  - 16. CHANGED VISIBILITIES FROM SM TO FT - VISCHECK EVALUATION FOR RVR.
  - 17. CHANGED DESCENT ANGLE FROM 3.19/45 TO 3.18/45.- IAPA DERIVED VALUES.
  - 18. CHANGED ALL BEARINGS TO SJT LOM / WOOLE - UPDATED FROM AIRNAV ON MAGVAR CHG FROM E9/1980 TO E5/2020.
  - 19. CHANGED SJT VORTAC FEEDER CRS FROM 217.59M TO 222.59M - UPDATED MAGVAR E9/1980 TO E5/2020.

12/20/2018: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON: 04/23/2018:  
1. ADDED FAS OBST: 2333 AAO 311800N/1003414W TO ADDITIONAL FLIGHT DATA.  
2. UPDATED CHANGES-REASONS/MAPS AND -9 TO IDENTIFY SAME FAS OBS: 2333 AAO.  
3. CHILD -2 MOVED TO 8260-2 FILE.



**COORDINATED WITH:**

A4A ☒    ALPA ☒    AOPA ☒    APA ☒    HAI ☐    NBAA ☒    OTHER: ZFW ARTCC, ZHU ARTCC, MAF ATCT, ARPT MGR, ST AV DIR,

**FLIGHT CHECKED BY**

**OFFICE**

**DATE**

**DEVELOPED BY**

WARDELL HENNING (ANDRE MARSH)

**OFFICE**

AJV-5432

**DATE**

12/17/2018

**APPROVED BY**

PATRICK MULQUEEN

**OFFICE**

AJV-5430

**DATE**

**TITLE**

MANAGER



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

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
SAN ANGELO RGNL/MATHIS FIELD	KSJT	NDB RWY 3	15	SAN ANGELO	TX	1919	SJ

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM  
EDWAR INT

TO  
SJ NDB

RNP

DISTANCE  
10.29

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.AAO	311227.00N/1002709.00W	2624	164	98	4E	1000				AT400	4100
2.TERRAIN	311227.00N/1002709.00W	2424 (2400)								AS1500	3900

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FEEDER

FROM  
CHILD INT

TO  
SJ NDB

RNP

DISTANCE  
14.35

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.TOWER (48-002696)	311206.98N/1002759.59W	2864	500	50	5D	1000				AT200	4100
4.TERRAIN	311136.00N/1003715.00W	2522 (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											
16.TOWER (48-025384)	312111.85N/1003055.83W	1.32	721	2056	20	3	1A	300		SI	2640
CATEGORY B											
16.TOWER (48-025384)	312111.85N/1003055.83W	1.87	721	2056	20	3	1A	300		SI	2640
CATEGORY C											
17.TOWER (48-001287)	312441.66N/1002830.77W	2.95	721	2183	50	20	2C	300		SI	2640
CATEGORY D											
18.AAO	312446.79N/1003259.03W	3.86	781	2391	50	20	2C	300			2700

CIRCLING REMARKS:

MSA

CENTER  
SJ NDB

RADIUS  
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (48-004098)	312202.00N/1000249.00W	074	27.7	3283	500	50	5D	1000			4300

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:







<u>AIRPORT</u>	<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>
SAN ANGELO RGNL/MATHIS FIELD	KSJT	NDB RWY 3	15	SAN ANGELO	TX	1919	SJ

**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

and/or  
**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**

**PART C: GENERAL REMARKS:**  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
\*/\*/\* SEE AFD FOR HRS OF OPERATION.  
ORDER 8260.3 CHAPTER 2 APPLIED TO 2370 AAO 311708.00N/1003457.00W.  
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT</u> SAN ANGELO RGNL/MATHIS FIELD	<u>AIRPORT ID</u> KSJT	<u>PROCEDURE NAME</u> NDB RWY 3	<u>AMDT NO.</u> 15	<u>CITY</u> SAN ANGELO	<u>STATE</u> TX	<u>AIRPORT ELEVATION</u> 1919	<u>FACILITY</u> SJ
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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	THLD	TO 1000FT POINT	3.41
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.89
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	043.10
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	2195
DISTANCE FROM	*	TO 1500FT POINT	
WIDTH OF		SEGMENT AT 1500FT POINT	
TRUE COURSE OF		SEGMENT CONTAINING 1500FT POINT	
HIGH TERRAIN IN		SEGMENT CONTAINING 1500FT POINT	
THRESHOLD COORDINATES (IF STR-IN)	312058.93N/1002959.52W		
ARP COORDINATES	312127.90N/1002946.70W		
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 3 DISTANCE 0.69 NM		
FAF COORDINATES	311647.23N/1003434.16W		
FIX NAME COORDINATES			
REMARKS	* 1500 FT POINT OCCURS IN THE PT MANEUVERING AREA.		



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SAN ANGELO RGNL/MATHIS FIELD	KSJT	NDB RWY 3	15	SAN ANGELO	TX	1919	SJ

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
WARDELL HENNING (ANDRE MARSH)	AJV-5432	12/17/2018	AERONAUTICAL INFORMATION SPECIALIST

