

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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> SAN ANGELO RGNL/MATHIS FIELD	<u>AIRPORT ID</u> KSJT	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 18	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> SAN ANGELO	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 1919	<u>TDZE</u> 1908	<u>SUPERSEDED</u> RNAV (GPS) RWY 18	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 09/28/2006	<u>MAG VAR</u> 5E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 28 FEBRUARY 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2020

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>
EVILE		CUGPA		TF	FB	1.00	316.20	24.36	4100
STEEP		JIGEM		TF	FB	1.00	093.37	25.34	4300
CUGPA	IAF	HONOB	NOPT	TF	FB	1.00	257.99	5.82	4100
JIGEM	IAF	HONOB	NOPT	TF	FB	1.00	092.23	9.03	4100
HONOB	IF/IAF	ZODEN		TF	FB	1.00	182.32	5.94	3500
ZODEN	FAF	ZUXUP/2.18 NM TO RW18		TF	FB	0.30	182.32	2.70	
ZUXUP/2.18 NM TO RW18		RW18	MAP	TF	FO	0.30	182.32	2.18	
RW18	MAP	2158 MSL		CA			182.32		
2158 MSL		HUMUG		DF	FB	1.00			
HUMUG		HEXPE		TF	FO	1.00	232.30	9.14	4400

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW18

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4400 DIRECT HUMUG AND ON TRACK 232.30 TO HEXPE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD N HONOB, RT, 182.32 INBOUND, 4100 FT. IN LIEU OF PT (IAF), MAX 8000.

3. FAC: 182.32FAF: ZODENDIST FAF TO MAP: 4.88DIST FAF TO THLD: 4.88

4. MIN ALT: HONOB 4100, ZODEN 3500, ZUXUP/2.18 NM TO RW18 2640*

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.67GS ANT:

6. MIN GP INCPT: 3500GP ALT AT FAF : ZODEN 3500OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 45.0

8. MSA FROM: RW18 4300

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -8C OR ABOVE 54C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT EVILE ON V76 EASTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT STEEP ON V68 NORTHWEST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CUGPA ON V77 NORTHBOUND.
CHART NOTE: CIRCLING NA FOR CAT E W OF RWY 18-36.

ADDITIONAL FLIGHT DATA:

CHART: ASR.
CHART CIRCLING ICON.
CHART VDP AT 1.18 NM TO RW18*
*LNAV ONLY
WAAS CHANNEL #93801
REFERENCE PATH ID: W18A
CHART FAS OBST: 2068 TOWER 312352N/1002945W.
CHART: 2320 TOWER 312712N/1003103W.
HOLD SW, RT, 038.07 INBOUND
LTP HAE: 554.8 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, CAT E 800-2 3/4

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
LPV DA	2158	3/4	250	2158	3/4	250	2158	3/4	250	2158	3/4	250	2158	3/4	250
LNAV/VNAV DA	2246	1	338	2246	1	338	2246	1	338	2246	1	338	2246	1	338
LNAV MDA	2320	1	412	2320	1	412	2320	1 1/8	412	2320	1 1/8	412	2320	1 1/8	412
CIRCLING	2360	1	441	2380	1	461	2500	1 1/2	581	2700	2 1/2	781	2700	2 3/4	781



CHANGES - REASONS

- 1. CAT E LINE OF MINIMA ADDED - FPT/ATC REQUEST.
- 2. CHANGED CAT A CIRCLING MDA/HAA FROM 2460/541 TO 2360/441 - NEW OBSTACLE EVALUATION.
- 3. CHANGED CAT B CIRCLING MDA/HAA FROM 2460/541 TO 2380/461 - NEW OBSTACLE EVALUATION.
- 4. CIRC CAT C MDA/HAA CHANGED FROM 2460/541 TO 2500/581 - CONTROLLING OBSTACLE CHANGED FROM 2043 ROD TO 2183 TOWER, EVALUATION FOR NEW CIRCLING RADII.
- 5. CIRC CAT D MDA/HAA CHANGED FROM 2480/561 TO 2700/781 - CONTROLLING OBSTACLE CHANGED FROM 2068 TOWER TO 2391 AAO, EVALUATION FOR NEW CIRCLING RADII.
- 6. CHARTED CIRCLING ICON - 8260-19H, 8-6-10.
- 7. EVILE FEEDER CRS AND DISTANCE CHANGED FROM 308.94/23.7 TO 316.20/24.36 - CUGPA FIX MOVED, MAGVAR CHANGE FROM E9/1980 TO E5/2020.
- 8. STEEP FEEDER CRS CHANGED FROM 089.37 TO 093.37 - MAGVAR CHANGE FROM E9/1980 TO E5/2020.
- 9. IAF CUGPA CRS AND DISTANCE CHANGED FROM 268.37/5.19 TO 257.99/5.82 - CUGPA FIX MOVED, UPDATED MAGVAR E9/1980 TO E5/2020.
- 10. IAF JIGEM CRS CHANGED FROM 088.23M TO 092.23M - UPDATED MAGVAR E9/1980 TO E5/2020.
- 12. IAF HONOB HOLD INBOUND CRS CHANGED FROM 178.32M TO 182.32M - UPDATED MAGVAR E9/1980 TO E5/2020.
- 13. HONOB INTERMEDIATE CRS AND DISTANCE CHANGED FROM 178.32M/6.00NM TO 182.23M/5.94NM - UPDATED MAGVAR E9/1980 TO E5/2020, PFAF MOVED.
- 14. FINAL CRS AND DISTANCE CHANGED FROM 178.32M/4.82 NM TO 182.32M/4.88 NM - PFAF LOCATION MOVED, UPDATED MAGVAR E9/1980 TO E5/2020.
- 15. LNAV/VNAV DA/HAT CHANGES FROM 2325/417 TO 2246/338 - NEW SURVEY AND OBSTACLE EVALUATION.
- 16. LNAV MDA/HAT CHANGES FROM 2440/532 TO 2320/412 - NEW IPDS EVALUATION SHOWS THE CONTROLLING OBS CHANGED FROM 2183 TOWER TO 2068 TOWER - (THE OLD OBS IS NOW IN THE SECONDARY AREA).
- 17. PFAF LOCATION MOVED 413 FT N - IAW 8260.54A 2.10.
- 18. CHANGED MISSED APPROACH INSTRUCTIONS FROM CLIMB TO 4000 DIRECT HUMUG AND LEFT TURN VIA 084 TRACK TO EDWAR AND HOLD TO CLIMB TO 4400 DIRECT HUMUG AND ON TRACK 232.30 TO HEXPE AND HOLD - IAW 8260-19.8.8.6D.
- 19 ADDED STEPDOWN FIX ZUXUP TO LNAV FINAL- TO GET LOWER MDA.
- 20. CHANGED BARO TEMP NOTE FROM: BARO-VNAV NA BELOW -18C (0F).TO: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -8C OR ABOVE 54C. - USED 5 YEAR AVERAGE (2013-2017).
- 21. CHANGED HEXPE MISSED APPROACH HOLDING PATTERN SIZE FROM 5 TO 9- CAT-E 265KT AIRSPEED.
- 22. CHANGED HONOB HIL HOLDING PATTERN SIZE FROM 6 TO 10- CAT-E 265KT AIRSPEED.
- 23. UPDATED FAS DATA, CRC REMAINDER CHANGED FROM 134C72D3 TO 168188DF- NEW LTP COORDINATES.

12/17/2018: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON: 04/20/2018:

- 1. RAISED MIN ALT STEEP-JIGEM SEGMENT FROM 4100 TO 4300.

01/22/19: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 01/17/19.

- 1. CHANGED RNP VALUE IN SEGMENT EVILE TO CUGPA AND FROM STEEP TO JIGEM FROM 2.00 TO 1.00 ON THE 8260.3.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZFW, MAF APP CON, SJT TWR, AMGR

FLIGHT CHECKED BY

BRIAN DAVID HARRELSON

Digitally signed by

WARDELL HENNING

Jan 22, 2019

OFFICE

FIOG

DATE

11/19/2018

DEVELOPED BY

LONNIE EVERHART (KEITH CTR MCKAY)

Digitally signed by

WARDELL HENNING

Jan 22, 2019

OFFICE

AJV-5400

DATE

04/20/2018

APPROVED BY

LONNIE EVERHART

Digitally signed by

WARDELL HENNING

Jan 22, 2019

OFFICE

AJV-5400

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSJT
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	312158.8610N
LTP/FTP LONGITUDE	1002952.3520W
LTP/FTP ELLIPSOIDAL HEIGHT	+05548
FPAP LATITUDE	312030.2900N
FPAP LONGITUDE	1003005.5900W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0568
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	168188DF

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+05789
FPAP ORTHOMETRIC HEIGHT	+05789

