

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> BOWIE MUNI	<u>AIRPORT ID</u> K0F2	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> BOWIE	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 1101	<u>TDZE</u> 1101	<u>SUPERSEDED</u> RNAV (GPS) RWY 17	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 12/07/2017	<u>MAG VAR</u> 4E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 19 JULY 2018	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL SUSPEND</u>	<u>EPOCH YEAR</u> 2020

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 080/30 CW 260/30	NOPT	JABEV	IF/IAF	2800
2. 260/30 CW 350/30		260/10 CW 350/10		4000
2. 260/10 CW 350/10		HIXEL	IAF	2800
3. 350/30 CW 080/30		PEDUE	IAF	2800

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>
HIXEL	IAF	JABEV	NOPT	TF	FB	1.00	260.42	5.00	2800
PEDUE	IAF	JABEV	NOPT	TF	FB	1.00	080.30	5.00	2800
JABEV	IF/IAF	CEKEX		TF	FB	1.00	170.36	5.00	2800
CEKEX	FAF	RW17	MAP	TF	FO	0.30	170.36	5.21	
RW17	MAP	1351 MSL		CA			170.36		
1351 MSL		FENUP		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW17

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT FENUP AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. HOLD N JABEV, RT, 170.36 INBOUND, 2800 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 170.36FAF: CEKEXDIST FAF TO MAP: 5.21DIST FAF TO THLD: 5.21
4. MIN ALT: JABEV 2800, CEKEX 2800
5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.66
6. MIN GP INCPT: 2800GP ALT AT FAF : CEKEX 2800OM:MM:IM:
7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS NOT CLEARTCH: 40.0
8. MSA FROM:

PBN EQUIPMENT REQUIREMENTS NOTES

RNP APCH

NOTES:

CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C OR ABOVE 54C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART SPEED ICON IN PLANVIEW AT HIXEL: MAX 200 KIAS.
CHART SPEED ICON IN PLANVIEW AT PEDUE: MAX 200 KIAS.
CHART SPEED ICON IN PLANVIEW AT JABEV: MAX 180 KIAS.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
WAAS CHANNEL #99741
REFERENCE PATH ID: W17A
FAS OBST: 1353 AAO 333958N/0974729W.
HOLD S, RT, 350.38 INBOUND
LTP HAE: 308.9 M

MINIMUMS:

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

ALTERNATE: NA

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STANDARD - CAT C 800-2 1/4

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	1351	1	250	1351	1	250	1351	1	250		NA				
LNAV/VNAV DA	1546	1 3/8	445	1546	1 3/8	445	1546	1 3/8	445		NA				
LNAV MDA	1640	1	539	1640	1	539	1640	1 3/8	539		NA				
CIRCLING	1640	1	539	1680	1	579	1860	2 1/4	759		NA				



CHANGES - REASONS

1. TERMINAL ROUTES: ALL COURSES ADDED THREE DEGREES - AIRPORT MAGVAR UPDATE.
2. MAGVAR CHANGED FROM 7E/1990 TO 4E/2020. - AIRPORT MAGVAR UPDATE.
3. TERMINAL ROUTE: JABEV TO CEKEX RNP CODE CHANGED FROM 0.50 TO 1.00 - IAW 8260.19 4-6-10.
4. TERMINAL ROUTE: ADDED CA LEG - IAW 8260.58 3-5-2.
5. HOLD IN LIEU INBOUND COURSE CHANGED FROM 167.36 TO 170.36 - AIRPORT MAGVAR UPDATE.
6. MISSED APPROACH HOLDING INBOUND COURSE CHANGED FROM 347.38 TO 350.38 - AIRPORT MAGVAR UPDATE.
7. LINE #3: FAC CHANGED FROM 167.36 TO 170.36 - AIRPORT MAGVAR UPDATE.
8. LINE #7 ADDED GS ANGLE: 3.00, TCH: 40, 20:1 IS NOT CLEAR, 34:1 IS CLEAR CHANGED TO NOT CLEAR - IAW 8260.19 8-6-7.
9. ALTERNATE MINIMUMS: NA CHANGED TO STANDARD CAT C 800- 2 1/4 - IAW 8260.3 3-4-1.
10. ADDED LPV AND LNAV/VNAV LINES OF MINIMA - PER AIR TRAFFIC/IFP REQUEST.
11. REMOVED NOTE: STRAIGHT-IN RWY 17 NA AT NIGHT, CIRCLING RWY 17 NA AT NIGHT - 20:1 OBSTACLE FOR RWY 17 IS VERIFIED LIT; NOTE NO LONGER REQUIRED.
12. CIRCLING MINIMA CHANGED FROM CAT A/B-1660/1/559, CAT C-1680/1/1/2 579 TO CAT A-1640/1/539, CAT B-1680/1/579, CAT C-1860 2 1/4 759 - ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.
13. REMOVED "USE SHEPPARD AFB/WICHITA FALLS MUNI ALTIMETER SETTING" FROM NOTES - IAW 8260.19 8-6-7
14. ADDED CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - GS/3.0-TCH 40 FT USED TO MITIGATE 20:1 PENS PER AIR TRAFFIC/IFP REQUEST.
15. ADDED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C OR ABOVE 54C - ADDED LPV, LNAV/VNAV LINES OF MINIMA PER AIR TRAFFIC/IFP REQUEST.
16. ADDED CHART SPEED ICON IN PLANVIEW AT HIXEL: MAX 200 KIAS, CHART SPEED ICON IN PLANVIEW AT PEDUE : MAX 200 KIAS AND CHART SPEED ICON IN PLANVIEW NOTE AT JABEV: MAX 180 KIAS - APPLIED ORDER 8260.58 CHAPTER 1. PER AIR TRAFFIC/IFP REQUEST TO RETAIN PROCEDURE DESIGN.
17. ADDITIONAL FLIGHT DATA: CHANGED CHART FAS OBST 1262 100' TREE 333815N/0974639W, TO FAS OBST: 1353 AAO 333958N/0974729W - APPLIED 200 FT AAO IN FINAL SEGMENT. NEW CONTROLLING OBSTACLE.
18. ADDITIONAL FLIGHT DATA: ADDED WAAS CHANNEL # 99741, REFERENCE PATH ID: W17A, LTP HAE: 308.9 M - ADDED LPV, LNAV/VNAV LINES OF MINIMA PER AIR TRAFFIC/IFP REQUEST.
19. ADDITIONAL FLIGHT DATA: ADDED CHART CIRCLING ICON - RADII EXPANDED TO CURRENT 8260.3C CRITERIA.
20. MISSED APPROACH: ADDED LPV: DA, LNAV/VNAV: DA - IAW 8260.19 8-6-6.
21. LINE #3: ADDED DIST FAF TO MAP: 5.21, THLD CHANGED FROM 5.12 TO 5.21 - ADDED LPV, LNAV/VNAV LINES OF MINIMA PER AIR TRAFFIC/IFP REQUEST.
22. ADDED PBN REQUIREMENT NOTE: RNP APCH - IAW 8260.58 CH 3.
23. ADDED THREE DEGREES TO ALL TAA COURSES - AIRPORT MAGVAR UPDATE
24. LINE 5: ADDED DISTANCE TO THLD FROM 250 HAT: 0.66 NM - IAW 8260.19H DOCUMENTATION CRITERIA.
25. REMOVED DEGREES FAHRENHEIT FROM BARO-VNAV NOTE - FAHRENHEIT NO LONGER REQUIRED IAW 8260.19H
26. REMOVED NOTES: GPS OR RNP-0.3 REQUIRED AND DME/DME RNP-0.3 NA - REPLACED WITH PBN REQUIREMENTS NOTE: RNP APCH IAW 8260.19H

PDF EDITS:

- REMOVED "ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED" FROM NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS.
- CHANGED "MAP" TO "ARP" IN AIRSPACE.
- CHANGED AVERAGE COLD TEMPERATURE DERIVED DEVIATION REMARK FROM 12C TO -30C.



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<u>COORDINATED WITH:</u>					
A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZFW, ARPT MGR, ST. AV. DIR.					
<u>FLIGHT CHECKED BY</u> ANTHONY D VALLERA		Digitally signed by DEZ SILAGYI Apr 24, 2018	<u>OFFICE</u> FICO	<u>DATE</u> 4/18/18	
<u>DEVELOPED BY</u> LEO PALMER		Digitally signed by LEO PALMER Mar 30, 2018	<u>OFFICE</u> AJV-5421	<u>DATE</u> 03/30/2018	
<u>APPROVED BY</u> JULIE MORGAN		Digitally signed by DEZ SILAGYI Apr 24, 2018	<u>OFFICE</u> AJV-5420	<u>DATE</u>	<u>TITLE</u> MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	K0F2
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	333623.7120N
LTP/FTP LONGITUDE	0974634.1335W
LTP/FTP ELLIPSOIDAL HEIGHT	+03089
FPAP LATITUDE	333454.8785N
FPAP LONGITUDE	0974623.6715W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1656
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	2E279DD4
<u>ADDITIONAL PATH POINT RECORD INFORMATION</u>	
ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+03354
FPAP ORTHOMETRIC HEIGHT	+03354

