

**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 ID</u> OWP	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> SAND SPRINGS	<u>STATE</u> OK
<u>AIRPORT ELEVATION</u> 892	<u>TDZE</u> 889	<u>SUPERSEDED ORIGINAL/AMENDMENT</u> RNAV (GPS) RWY 17 ORIG-A	<u>DATED</u> 02/28/2019	<u>MAG VAR</u> 2E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 26 DECEMBER 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2025
			<u>CANCEL/SUSPEND</u>	

**TERMINAL ROUTES**

THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 24-25.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
TUL VORTAC		ZADNO		TF	FB	1.00	306.01	17.22	3500
MANON		YEKNU		TF	FB	1.00	121.42	14.98	3500
ZADNO	IAF	WEDAX	NOPT	TF	FB	1.00	263.44	5.00	2800
YEKNU	IAF	WEDAX	NOPT	TF	FB	1.00	083.32	5.00	2800
WEDAX	IF/IAF	BLANY		TF	FB	1.00	173.37	6.40	2400
BLANY	FAF	RW17	MAP	TF	FO	0.30	173.39	4.60	
RW17	MAP	1139 MSL		CA			173.39		
1139 MSL		ACERT		DF	FO	1.00			2800

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW17

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2800 DIRECT ACERT AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD N WEDAX, RT, 173.37 INBOUND, 2800 FT. IN LIEU OF PT (IAF), MAX 6000.
- FAC: 173.39 FAF: BLANY DIST FAF TO MAP: 4.60 DIST FAF TO THLD: 4.60
- MIN ALT: WEDAX 2800, BLANY 2400
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 250 HAT: 0.64 GS ANT: IM:
- MIN GP INCPT: 2400 GP ALT AT PFAF: BLANY 2400 ←
- GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 45.0
- MSA FROM: RW17 3600



**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.  
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TUL VORTAC ON AIRWAY RADIALS 253 CW 358.  
 CHART NOTE: CIRCLING NA FOR CAT C EAST OF RWY 17-35.  
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TUL ALTIMETER SETTING AND INCREASE LPV DA TO 1206 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1443 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C 1/4 SM, AND CIRCLING VISIBILITY CAT C 1/4 SM.  
 CHART SPEED ICON IN PLANVIEW AT ZADNO: MAX 210 KIAS.  
 CHART SPEED ICON IN PLANVIEW AT YEKNU: MAX 210 KIAS.  
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING TUL ALTIMETER SETTING. ←

**ADDITIONAL FLIGHT DATA:** ←

HOLD S, RT, 353.40 INBOUND.  
 FAS OBST: 1204 AAO 361433N/0960848W.  
 CHART VDP AT 1.69 NM TO RW17.  
 WAAS CHANNEL # 56248  
 REFERENCE PATH ID: W17A  
 LTP HAE: 242.3 M

**MINIMUMS:**

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

**ALTERNATE:** NA  STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

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	1139	3/4	250	1139	3/4	250	1139	3/4	250		NA					
LNAV/VNAV DA	1376	1 3/8	487	1376	1 3/8	487	1376	1 3/8	487		NA					
LNAV MDA	1460	1	571	1460	1	571	1460	1 5/8	571		NA					
CIRCLING	1460	1	568	1460	1	568	1460	1 5/8	568		NA					



**CHANGES - REASONS**

1. TERMINAL ROUTES – ALL COURSES CHANGED BY 4 DEGREES - AIRPORT MAGVAR UPDATED FROM 6E/1985 TO 2E/2025
2. TERMINAL ROUTES – TUL VORTAC TO ZADNO DISTANCE CHANGE FROM 17.21 TO 17.22 – UPDATED TARGETS EVALUATION
3. TERMINAL ROUTES – WEDAX TO BLANY DISTANCE CHANGE FROM 6.45 TO 6.40 – FAF MOVED DUE TO TARGETS EVALUATION
4. TERMINAL ROUTES – BLANY TO RW17 DISTANCE CHANGE FROM 4.55 TO 4.60 – FAF MOVED DUE TO TARGETS EVALUATION
5. TERMINAL ROUTES – 1292 MSL CHANGED TO 1139 MSL ON MISSED LINES – UPDATED CONTROLLING OBSTACLE
6. MAP – ADDED LNAV/VNAV:DA AND LPV:DA – LNAV/VNAV AND LPV ADDED AT FPT/ATC REQUEST
7. PROFILE LINE TWO – HOLDING CHANGED FROM 169.38 TO 173.37 - AIRPORT MAGVAR UPDATED FROM 6E/1985 TO 2E/2025.
8. PROFILE LINE 3 – FAC CHANGED FROM 169.39 TO 173.39 - AIRPORT MAGVAR UPDATED FROM 6E/1985 TO 2E/2025.
9. PROFILE LINE 3 – DIST FAF TO MAP/THLD CHANGED FROM 4.55 TO 4.60 – UPDATED TARGETS EVALUATION
10. PROFILE LINE 5 – ADDED 250 HAT: 0.64 – NEW FINAL CONTROLLING OBSTACLE
11. PROFILE LINE 6 – ADDED MIN GP INCPT: 2400 AND GP ALT AT PFAF CHANGED BLANY 2400 – UPDATED FORMATTING
12. PROFILE LINE 7 – 20:1 CHANGED FROM IS NOT CLEAR TO IS CLEAR – 20:1 PENETRATIONS REMOVED
13. PBN REQUIREMENT NOTE – RNP APCH CHANGED TO RNP APCH – GPS - IAW 8260.19I, PARA 8-6-8B(2)
14. NOTES – CHANGED NOTE FROM “RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED” TO “RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED” - IAW 8260.19J PARA 8-6-12K(2)
15. NOTES – ADDED SPEED ICONS AT ZADNO AND YEKNU, MAX 210 KIAS – REQUESTED BY FPT/ATC DUE TO SHORT INITIAL LEGS
16. NOTES – ADDED NOTE “FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C” – LNAV/VNAV MINIMA ADDED AT FPT/ATC REQUEST
17. NOTES – ADDED NOTE “WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TUL ALTIMETER SETTING AND INCREASE LPV DA TO 1206 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1443 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C 1/4 SM, AND CIRCLING VISIBILITY CAT C 1/4 SM.” – FPT/ATC REQUEST NOTE TO BE MOVED FROM THE -9 TO THE NOTES SECTION
18. NOTES – REMOVED NOTE “PROCEDURE NA AT NIGHT” – 20:1 PENETRATIONS REMOVED
19. ADDITIONAL FLIGHT DATA - REMOVED CHART CIRCLING ICON FROM ADDITIONAL FLIGHT DATA - NO LONGER NEEDED
20. ADDITIONAL FLIGHT DATA – CHANGED HOLDING FROM 349.40 TO 353.40 - AIRPORT MAGVAR UPDATED FROM 6E/1985 TO 2E/2025
21. ADDITIONAL FLIGHT DATA – CHANGED BLANY TO RW17: 3.04/45 TO BLANY TO RW17: 3.00/45 – GPA UPDATED AT FPT/ATC REQUEST
22. ADDITIONAL FLIGHT DATA – ADDED WAS CHANNEL #56248 AND REFERENCE PATH ID: W17A – LNAV/VNAV AND LPV LINES OF MINIMA ADDED
23. ADDITIONAL FLIGHT DATA – FAS OBST CHANGED FROM 1156 WTR TWR 361260N/0960838W TO 1204 AAO 361433N/0960848W – UPDATED TARGETS EVALUATION
24. ADDITIONAL FLIGHT DATA – ADDED CHART VDP AT 1.69 NM TO RW17 – 20:1 OBSTACLES REMOVED
25. MINIMUMS/ALTERNATE – CHANGED FROM STANDARD TO STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE - IAW 8260.19J, PARA 8-6-12B(4)
26. MINIMUMS – LPV AND LNAV/VNAV LINES OF MINIMA ADDED – FPT/ATC
27. MINIMUMS – LNAV MDA/HAT CHANGED FROM 1420/531 TO 1460/571 – NEW CONTROLLING OBSTACLE ON FINAL
28. MINIMUMS – LNAV CAT C VIS CHANGED FROM 1 1/2 TO 1 5/8 – UPDATED VIS 8260.3E, TABLE 3-3-1
29. MINIMUMS – CIRCLING CAT A/B MDA/VIS/HAA CHANGED FROM 1440/1/548 TO 1460/1/568 – NEW CONTROLLING OBSTACLES
30. MINIMUMS – CIRCLING CAT C MDA/VIS/HAA CHANGED FROM 1440/1/548 TO 1460-1 5/8 -568 – NEW CONTROLLING OBSTACLES
31. FAS DATA – ADDED ALL FAS DATA – ADDED LNAV/VNAV AND LPV MINIMUMS

10/30/2024: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/02/2024.

1. PROFILE LINE 6 GP ALT AT PFAF: ADDED 2400 TO BLANY.
2. ADDITIONAL FLIGHT DATA: REMOVED VDA.
3. REMOVED CHART NOTE: "BARO-VNAV AND VDP NA..." FROM ADDITIONAL FLIGHT DATA AND ADDED IT TO NOTES.

**COORDINATED WITH:**

A4A  
  ALPA  
  AOPA  
  APA  
  HAI  
  NBAA  
 OTHER: ZKC, TUL APP CON, AMGR

**FLIGHT CHECKED BY**

HANNAH WIESNESKI

*Digitally signed by*  
**CASIMIR L TABAKA**  
 Oct 30, 2024

**OFFICE**

FPO

**DATE**

10/01/2024

**DEVELOPED BY**

JOSEPH BLANCO

*Digitally signed by*  
**JOSEPH A BLANCO**  
 Aug 14, 2024

**OFFICE**

AJV-A432

**DATE**

05/23/2024

**APPROVED BY**

BEV L BORDY

*Digitally signed by*  
**CASIMIR L TABAKA**  
 Oct 30, 2024

**OFFICE**

AJV-A430

**DATE**

**TITLE**  
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KOWP
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	361059.5750N
LTP/FTP LONGITUDE	0960909.4590W
LTP/FTP ELLIPSOIDAL HEIGHT	+02423
FPAP LATITUDE	360930.6365N
FPAP LONGITUDE	0960900.6270W
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	0984
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 28053321

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+02710
FPAP ORTHOMETRIC HEIGHT	+02710

