

**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.

AIRPORT ID BBD	PROCEDURE NAME RNAV (GPS) RWY 17	ORIGINAL/AMENDMENT 2	CITY BRADY	STATE TX
AIRPORT ELEVATION 1827	TDZE 1827	SUPERSEDED RNAV (GPS) RWY 17	DATED 11/07/2019	MAG VAR 7E
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 5 SEPTEMBER 2024	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 1995
				CANCEL/SUSPEND

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 083/30 CW 263/30	NOPT	ELAME	IF/IAF	4000
2. 263/30 CW 353/30		HUDLE	IAF	4000
3. 353/30 CW 083/30		353/25 CW 083/25		4300
4. 353/25 CW 083/25		IPOCO	IAF	4000

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HUDLE	IAF	ELAME	NOPT	TF	FB	1.00	263.21	7.00	4000
IPOCO	IAF	ELAME	NOPT	TF	FB	1.00	083.07	7.00	4000
ELAME	IF/IAF	EYEDU		TF	FB	1.00	173.14	6.03	3500
EYEDU	FAF	RAVLE/2.12 NM TO RW17		TF	FB	0.30	173.14	3.01	
RAVLE/2.12 NM TO RW17		RW17	MAP	TF	FO	0.30	173.14	2.12	
RW17	MAP	2027 MSL		CA			173.14		
2027 MSL		JENEV		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW17

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT JENEV AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- | | | | | | |
|--|-----------------------------------|-----------------------|------------------------------|-------------------------------|----------------|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) |
| 2. HOLD N ELAME, RT, 173.14 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000. | | | | | |
| 3. FAC: 173.14 | FAF: EYEDU | | DIST FAF TO MAP: 5.13 | DIST FAF TO THLD: 5.13 | |
| 4. MIN ALT: ELAME 4000, EYEDU 3500, RAVLE/2.12 NM TO RW17 2540 | | | | | |
| 5. DIST TO THLD FROM OM: | MM: | IM: | 150 HAT: | 200 HAT: 0.50 | GS ANT: |
| 6. MIN GP INCPT: 3500 | GP ALT AT PFAF: EYEDU 3500 | | OM: | MM: | IM: |
| 7. GP ANGLE: 3.00 | 34:1: IS CLEAR | 20:1: IS CLEAR | TCH: 40.0 | | |
| 8. MSA FROM: | | | | | |

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C OR ABOVE 54°C.
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING JCT ALTIMETER SETTING.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JCT ALTIMETER SETTING: INCREASE LPV DA TO 2144 FEET; INCREASE LNAV/VNAV DA TO 2194 FEET; INCREASE ALL MDAS 120 FEET AND LNAV VISIBILITY CAT C 3/8 SM.

ADDITIONAL FLIGHT DATA:

HOLD S, RT, 353.14 INBOUND.
 CHART FAS OBST: 1907 TREE 311300N/0991848W.
 2153 AAO 311542N/0992027W.
 CHART VDP AT 0.92 NM TO RW17.
 WAAS CHANNEL # 53608
 REFERENCE PATH ID: W17A
 LTP HAE: 533 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												
LPV DA	2027	1	200	2027	1	200	2027	1	200		NA					
LNAV/VNAV DA	2077	1	250	2077	1	250	2077	1	250		NA					
LNAV MDA	2160	1	333	2160	1	333	2160	1	333		NA					



CHANGES - REASONS

1. TERMINAL ROUTES: REMOVED LLO VORTAC FEEDER AND BREDY FEEDERS FROM PROCEDURE - LLO VOR MON.
2. TERMINAL ROUTES: ADDED TAA – ATC REQUEST TO REPLACE FEEDERS, ADDITION OF TAA INCORPORATES FDC NOTAM 4/7702.
3. TERMINAL ROUTES: CHANGED HUDLE TO ELAME LEG FROM 263.19/5.00 TO 263.21/7.00 – LEG LENGTH INCREASED TO MEET MINIMUM LEG REQUIREMENTS IAW 8260.58C, 1-2-5.B(1). FIX NAME RETAINED AT ATC REQUEST.
4. TERMINAL ROUTES: CHANGED IPOCO TO ELAME LEG FROM 083.09/5.00 TO 083.07/7.00 – LEG LENGTH INCREASED TO MEET MINIMUM LEG REQUIREMENTS IAW 8260.58C, 1-2-5.B(1). FIX NAME RETAINED AT ATC REQUEST.
5. TERMINAL ROUTES: UPDATED ELAME TO EYEDU DISTANCE FROM 6.10 TO 6.03 – PFAF RELOCATED BASED ON GPA/TCH.
6. TERMINAL ROUTES: ADDED STEPDOWN SEGMENT “EYEDU” TO “RAVLE/2.12 NM TO RWY 17” COURSE/DISTANCE “173.14/3.01” – SDF ADDED FOR LOWER LNAV MINS.
7. TERMINAL ROUTES: ADDED SEGMENT “RAVLE/2.12 NM TO RWY 17” TO “RWY 17” COURSE/DISTANCE “173.14/2.12” - SDF ADDED FOR LOWER LNAV MINS.
8. TERMINAL ROUTES: UPDATED CA LEG FROM “2077 MSL” TO “2027 MSL” – IAW 8260.58C, 3-5-2.B.
9. TERMINAL ROUTES: UPDATED FROM “2077 MSL TO CEGOS” AND “CEGOS TO BREDY 228.25/6.68/4000” TO “2027 MSL TO JENEV 4000” – MISSED APPROACH UPDATED.
10. MISSED APPROACH: CHANGED FROM “CLIMB TO 4000 DIRECT CEGOS AND ON TRACK 228.24 TO BREDY AND HOLD” TO “CLIMB TO 4000 DIRECT JENEV AND HOLD” – NEW MISSED APPROACH DEVELOPED, LLO VOR MON.
11. PROFILE LINE 2: CHANGED FROM “PROFILE STARTS AT ELAME” TO “HOLD N ELAME, RT, 173.14 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000” – HOLD-IN-LIEU-OF-PROCEDURE TURN ESTABLISHED.
12. PROFILE LINE 3: CHANGED DIST FAF TO MAP AND DIST FAF TO THLD FROM “5.06” TO “5.13” - FAF RELOCATED BASED ON GPA/TCH.
13. PROFILE LINE 4: ADDED “RAVLE/2.12 NM TO RWY17 2540” – STEPDOWN FIX ADDED.
14. PROFILE LINE 5: UPDATED DIST TO THLD FROM “250 HAT: 0.66 NM” TO “200 HAT: 0.50 NM” – RELOCATED FROM ADDITIONAL FLIGHT DATA, LPV MINS LOWERED.
15. PROFILE LINE 7: ADDED 20:1 IS CLEAR – IAW 8260.19J, 8-6-7.G(3)(A).
16. PROFILE LINE 8: MSA REMOVED – TAA ADDED.
17. PBN REQUIREMENT NOTE: CHANGED FROM “RNP APCH” TO “RNP APCH – GPS” – IAW 8260.19J, 8-6-8B.
18. NOTES: REMOVED FAHRENHEIT TEMPS ON BARO-VNAV NA NOTE - IAW 8260.19J, 8-6-10.R.
19. NOTES: REMOVED “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LLO VORTAC ON V161-568 SOUTHBOUND” – REMOVED FEEDER LEG, LLO VOR MON.
20. NOTES: UPDATED “CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JUNCTION ALTIMETER SETTING AND INCREASE ALL DA/MDA 120 FEET, INCREASE LPV ALL CATS VISIBILITY 1/4 MILE, LNAV/VNAV ALL CATS VISIBILITY 1/2 MILE, AND LNAV CAT C VISIBILITY 1/2 MILE” TO “WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JCT ALTIMETER SETTING: INCREASE LPV DA TO 2144 FEET; INCREASE LNAV/VNAV DA TO 2194 FEET; INCREASE ALL MDAS 120 FEET AND LNAV VISIBILITY CAT C 3/8 SM.” – IAW 8260.19J, 8-6-10.F(4).
21. NOTES: UPDATED “VDP AND BARO-VNAV NA WHEN USING JUNCTION ALTIMETER SETTING” TO “BARO-VNAV AND VDP NA WHEN USING JCT ALTIMETER SETTING” – IAW 8260.19J, 8-6-10.E(8), 8-6-10.E(9).
22. ADDITIONAL FLIGHT DATA: REMOVED “*LNAV ONLY” – NOT REQUIRED.
23. ADDITIONAL FLIGHT DATA: UPDATED FAS OBSTACLE FROM “CHART FAS OBST: 1899 TREE 311157N/0991847W, FAS OBST: 2169 AAO 311506N/0991836W” TO “CHART FAS OBST: 1907 TREE 311300N/0991848W” – NEW OBSTACLE EVALUATION.
24. ADDITIONAL FLIGHT DATA: ADDED NEW 7:1 OBSTACLE 2153 AAO 311542N/0992027W – NEW OBSTACLE EVALUATION.
25. ADDITIONAL FLIGHT DATA: UPDATED VDP FROM “CHART VDP AT 1.74 MILES TO RWY17” TO “CHART VDP AT 0.92 NM TO RWY17” – * REMOVED NOT REQUIRED, LNAV MINS LOWERED.
26. ADDITIONAL FLIGHT DATA: UPDATED MISSED APPROACH HOLDING FROM “HOLD E, RT, 285.39 INBOUND.” TO “HOLD S, RT, 353.14 INBOUND” – NEW MISSED APPROACH HOLDING.
27. MINIMUMS: LOWERED LPV DA/HAT FROM 2077/250 TO 2027/200 – 200 HAT BASED ON NO APPROACH SURFACE PENETARTIONS.
28. MINIMUMS: LOWERED LNAV/VNAV DA/HAT FROM 2191/364 TO 2077/250 AND VISIBILITY FROM 1 ¼ SM TO 1 SM – APPROACH SURFACE NOW CLEAR AND IAW 8260.3E, TABLE 3-3-1.
29. MINIMUMS: LOWERED LNAV MDA/HAT FROM 2420/593 TO 2160/333 AND LOWERED CAT C VISIBILITY FROM 1 1/2 SM TO 1 SM – NEW OBSTACLE EVALUATION AND 8260.3E, TABLE 3-3-1.
30. FAS DATA: UPDATED CRC REMAINDER FROM “00DD71A9” TO “7D25E14A” – FPAP LAT/LONG CHANGED FROM 310937.7800N/0991928.8600W TO 310937.7780N/0991928.8710W, VAL CHANGED FROM 50 TO 35.

COORDINATED WITH:

A4A
 ALPA
 AOPA
 APA
 HAI
 NBAA
 OTHER: ZHU, ZFW, AMGR

FLIGHT CHECKED BY

Digitally signed by

DAVID DANNER

Jul 01, 2024

OFFICE

FPO

DATE

06/25/2024

DEVELOPED BY

DAVID DANNER (MICHAEL DARDEN)

Digitally signed by

DAVID DANNER

Jul 01, 2024

OFFICE

AJV-A421

DATE

04/10/2024

APPROVED BY

DAVID DANNER

Digitally signed by

DAVID DANNER

Jul 01, 2024

OFFICE

AJV-A421

DATE

09/05/2024

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBBD
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	311107.0765N
LTP/FTP LONGITUDE	0991928.6065W
LTP/FTP ELLIPSOIDAL HEIGHT	+05330
FPAP LATITUDE	310937.7780N
FPAP LONGITUDE	0991928.8710W
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	1344
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER 7D25E14A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+05566
FPAP ORTHOMETRIC HEIGHT	+05566

