

**FLIGHT STANDARDS SERVICE  
VOR STANDARD INSTRUMENT APPROACH PROCEDURE**

**TITLE 14 CFR PART 97.23**

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.

If an instrument approach procedure of the above type is conducted at the below named airport, it shall be conducted in accordance with a charted instrument approach procedure predicted on the specifications contained herein, unless an approach is conducted in accordance with a different procedure for such airport authorized by the Administrator. Minimum altitudes shall correspond with those established for enroute operations in the particular area or as set forth below.

<u>AIRPORT</u> BROWNWOOD RGNL	<u>AIRPORT ID</u> KBWD	<u>PROCEDURE NAME</u> VOR RWY 35	<u>ORIGINAL/AMENDMENT</u> 1C	<u>CITY</u> BROWNWOOD	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 1387	<u>TDZE</u> 1386	<u>SUPERSEDED</u> VOR/DME RWY 35	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 09/01/2005	<u>MAG VAR</u> 8E
<u>FACILITY</u> BWD	<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> 1980

**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>
BWD VOR/DME		GRUPE/BWD 12.00 DME					170.83	12.00	3600
LLO VORTAC	IAF	ZANNE/BWD 22.00 DME	NOPT				341.27	44.42	5000
ZANNE/BWD 22.00 DME	IF	GRUPE/BWD 12.00 DME					350.83	10.00	3100

**MISSED APPROACH**

**MAP:**

BWD 6.40 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3600 DIRECT BWD VOR/DME AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. PT R    **SIDE OF COURSE** 171.00    **OUTBOUND** 3600    **FT WITHIN** 10    **MILES OF** GRUPE (IAF)
- 2.
3. **FAC:** 350.83    **FAF:** GRUPE/BWD 12.00 DME    **DIST FAF TO MAP:**    **DIST FAF TO THLD:** 5.70
4. **MIN ALT:** GRUPE/BWD 12.00 DME 3100
8. **MSA FROM:** BWD VOR/DME 3500

**EQUIPMENT REQUIREMENTS NOTES:**

EQUIPMENT REQUIREMENTS NOTE: DME REQUIRED

**NOTES:**

CHART NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

**ADDITIONAL FLIGHT DATA:**



GRUPE/BWD 12 DME TO RW35: 2.82/40.  
CHART FAS OBST: 1630 TOWER 314424N/0985752W.  
HOLD N, RT, 171.00 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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-35	1940	1	554	1940	1	554	1940	1 5/8	554	1940	1 5/8	554			
CIRCLING	1940	1	553	1940	1	553	1940	1 5/8	553	1940	2	553			

CHANGES - REASONS

- ADDED CHART NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - 34:1 PENETRATIONS EXIST.
- CHANGED MSA ALTITUDE TO 3600 25 NM - NEW CONTROLLING OBSTACLES WOULD HAVE BOTH SECTORS WITHIN 300 FEET OF EACH OTHER SO SECTORING NOT ALLOWED.
- ADDED CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - NOTE REQUIRED - TCH = 40; VGSI TCH = 45.
- REMOVED DME FROM PROCEDURE NAME - IAW 8260.19H CRITERIA - REMOVE DME FROM PROCEDURE NAME.
- ADDED EQUIPMENT REQUIREMENTS NOTE: DME REQUIRED - IAW 8260.19H PARA 8-6-8A(2)(A).
- UPDATED FAS OBST FROM 1595 TOWER TO 1630 TOWER - NEW OBSTACLE EVALUATION.
- CHANGED S-35 MDA/HAT FROM 1880/495 TO 1940/554 ALL CATS, AND CAT C VIS FROM 1 1/4 TO 1 5/8 AND CAT D VISIBILITY FROM 1 1/2 TO 1 5/8 - NEW OBSTACLE EVALUATION.
- CHANGED CIRCLING CAT A/B/C MDA HAA FROM 1880/494 TO 1940/553 AND CAT D HAA FROM 554 TO 553, AND CAT C VIS FROM 1 1/2 TO 1 5/8 - NEW OBSTACLE EVALUATION.
- FINAL COURSE CHANGED FROM 351 TO 350.83 - PER CRITERIA COURSES ROUND TO THE HUNDREDTHS.
- COURSE FROM BWD VOR/DME TO GRUPE CHANGED FROM 171 TO 170.83 - PER CRITERIA COURSES ROUND TO THE HUNDREDTHS.
- COURSE FROM LLO VORTAC TO ZANNE CHANGED FROM 341 TO 341.27 - PER CRITERIA COURSES ROUND TO THE HUNDREDTHS.
- COURSE FROM ZANNE TO GRUPE CHANGED FROM 351 TO 351.83 - PER CRITERIA COURSES ROUND TO THE HUNDREDTHS.
- DISTANCE FROM LLO VORTAC TO ZANNE CHANGED FROM 44.40 TO 44.42 - REVISED IAW IAPA CALCULATION.

PDF EDIT:

- REMOVED ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING APPLIED FROM 8260-9.

05/24/18: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 11/16/17.

- REMOVED LINE 9 FROM CHANGES/REASONS: "CHANGED MISSED APPROACH POINT FROM BWD R-171/6.40 DME TO ZEMVI/BWD 6.35 DME" - NOT NEEDED - AND THEN RENUMBERED CHANGES/REASONS.
- CHANGES-REASONS (WAS CHANGE 11 BUT CHANGED TO CHANGE 10 DUE TO REUNMBERING): "COURSE FROM BWD VOR/DME TO GRUPE CHANGED FROM 171 TO 171.83 - PER CRITERIA COURSES ROUND TO THE HUNDREDTHS" - PER THE 8260-2 FOR GRUPE THE COURSE REMAINS 170.83 VS 171.83. CORRECTED LINE 10 OF THE CHANGE LIST AND CORRECTED THE 8260-5 TERMINAL ROUTE BWD TO GRUPE TO A COURSE OF 170.83.

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZFW ARTCC, FTW FSS, AIRPORT MANAGER, ATA

FLIGHT CHECKED BY

ZACK LEE SMYER

OFFICE

FIOG

DATE Digitally signed by

05/22/2018 ALLAN WILL  
Jun 06, 2018

DEVELOPED BY Digitally signed by

MIKE MELSSEN MIKE MELSSEN

OFFICE

AJV-5412

DATE

11/16/2017

APPROVED BY May 31, 2018

GEORGE DAVIS

OFFICE

AJV-5410

DATE

Digitally signed by  
ALLAN WILL  
Jun 06, 2018

TITLE  
MANAGER

