

**FEDERAL AVIATION ADMINISTRATION
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.

AIRPORT ID HRL	PROCEDURE NAME VOR RWY 18R	ORIGINAL/AMENDMENT 1	CITY HARLINGEN	STATE TX
AIRPORT ELEVATION 36	TDZE 35	SUPERSEDED VOR/DME RWY 17R	DATED 11/07/2019	MAG VAR 5E
FACILITY HRL	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 11 JULY 2024	REQUIRED EFFECTIVE DATE 07/11/2024	EPOCH YEAR 2005
			CANCEL/SUSPEND	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HRL VOR/DME		MOVBE/HRL 5.40 DME	FAF/IAF				340.20	5.40	2000
RAYMO/MFE 38.10 DME	IAF	FAPOK/HRL 13.43 DME	NOPT				230.95	5.45 (MFE R-051)	2000
FAPOK/HRL 11.43 DME	IF	MOVBE/HRL 5.40 DME					160.20	8.03 (HRL R-340)	1600

MISSED APPROACH

MAP:

HUDUL/HRL 0.73 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 2000 DIRECT HRL VOR/DME AND HOLD, CONTINUE TO CLIMB IN HOLD TO 2000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT L SIDE OF COURSE 340.20 OUTBOUND 2000 FT WITHIN 10 MILES OF MOVBE/5.40 DME (IAF)
-
- FAC: 160.20 FAF: MOVBE/HRL 5.40 DME DIST FAF TO MAP: DIST FAF TO THLD: 4.67
- MIN ALT: MOVBE/HRL 5.40 DME 1600, CALAH/HRL 3.54 DME 1000
- MSA FROM: HRL VOR/DME 180-300 2600, 300-180 1900



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE (ANGLE)/TCH (FEET)).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-18R CAT C/D VISIBILITY TO 1 3/8 SM.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PORT ISABEL ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET AND S-18R VISIBILITY CAT C/D TO RVR 5500 AND CIRCLING VISIBILITY CAT C/D 1/4 SM.
CHART NOTE: VDP NA WHEN USING PORT ISABEL ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART MFE 32.65 AT FAPOK
243 AAO 261724N/0974115W.

HOLD S, RT, 340.00 INBOUND.
CHART FAS OBST: 188 TRANSMISSION_LINE (48-029052) 261646N/0974019W.
CHART VDP AT 1.77 DME.
DISTANCE VDP TO THLD 1.05 NM.
FAC CROSSES RWY C/L EXTENDED 3617 FT FROM THLD.
MOVBE TO RW18R: 3.05/55.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA STANDARD

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
S-18R	440	2400	405	440	2400	405	440	4000	405	440	4000	405			
CIRCLING	460	1	424	560	1	524	600	1 1/2	564	680	2	644			



CHANGES - REASONS

1. PROCEDURE NAME: CHANGED FROM "VOR/DME RWY 17R" TO "VOR RWY 18R" – DUE TO MAGVAR CHANGE/RUNWAY RENUMBERING AND IAW 8260.19I PARA 8-6-2.C.
2. TERMINAL ROUTES: DELETED "MFE VOR/DME TO MOVBE/5.40 DME" AND ALL ASSOCIATIONS – PER ATC REQUEST.
3. TERMINAL ROUTES: DELETED "HRL VOR/DME TO MOVBE/5.40 DME" AND ALL ASSOCIATIONS – PER ATC REQUEST.
4. TERMINAL ROUTES: UPDATED "FAPOK/11.40 DME TO MOVBE/5.40 DME" TO "FAPOK/HRL 13.43 DME TO MOVBE/HRL 5.40 DME" – NEW IF LOCATION PROVIDED BY FPT AND IAW 8260.19I PARA 8-6-4.A.
5. TERMINAL ROUTES: UPDATED "FAPOK/HRL 13.43 DME TO MOVBE/HRL 5.40 DME" DISTANCE FROM "6.00 (HRL R-340)" TO "8.03 (HRL R-340)" – IAW 8260.19I PARA 8-6-4.A.
6. MAP: UPDATED "HUDUL/HRL 0.74 DME" TO "HUDUL/HRL 0.73 DME" – NEW TARGETS CALCULATION AND IAW 8260.19I PARA 8-6-4.A.
7. MISSED APPROACH INSTRUCTIONS: UPDATED FROM "CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 2000 DIRECT HRL VOR/DME AND HOLD" TO "CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 2000 DIRECT HRL VOR/DME AND HOLD, CONTINUE TO CLIMB-IN-HOLD TO 2000." – TARGETS EVALUATION IDENTIFIED A NEED FOR CIH AND IAW 8260.19I PARA 8-6-6.
8. PROFILE LINE 1: UPDATED PT TURN DIRECTION FROM "L" TO "R"- PER FPT REQUEST.
9. PROFILE LINE 1: SIDE OF COURSE: CHANGED FROM "340.00" TO "340.20" – NEW TARGETS CALCULATION AND PER FPT REQUEST AND IAW 8260.19I PARA 8-6-7A.(1).
10. PROFILE LINE 3: FAC: CHANGED FROM "160.00" TO "160.20" – IAW 8260.19I PARA 8-6-7.C.
11. PROFILE LINE 3: DIST FAF TO THLD: CHANGED FROM "4.66" TO "4.67" – IAW 8260.19I PARA 8-6-7.C.(4).
12. PROFILE LINE 4: ADDED "CALAH/HRL 3.54 DME 1000 - DUE TO THE ADDITION OF NEW SDF THAT MAINTAINED PREVIOUSLY PUBLISHED MINIMUMS.
13. EQUIPMENT REQUIREMENT NOTES: ADDED "DME REQUIRED" – IAW 8260.19I PARA 8-6-8.A.(2).
14. NOTES: ADDED "CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - IAW 8260.19I PARA 8-6-9.M.(2).
15. NOTES: ADDED "CHART NOTE: VDP NA WHEN USING PORT ISABEL ALTIMETER SETTING" - IAW 8260.19I PARA 8-6-9.E.(9).
15. ADDITIONAL FLIGHT DATA: DELETED "CHART FAS OBST: 134 100' TREE 261639N/0973951W" AND REPLACED WITH "CHART FAS OBST 188 TRANSMISSION_LINE (48-029052) 261646N/0974019W" – NEW TARGETS EVALUATION AND IAW 8260.19I PARA 8-6-10.C.
16. ADDITIONAL FLIGHT DATA: CHANGED "CHART VDP AT 1.68 DME" TO "CHART VDP AT 1.77 DME" – NEW TARGETS CALCULATION AND IAW 8260.19I PARA 8-6-10.M.
17. ADDITIONAL FLIGHT DATA: CHANGED "DISTANCE VDP TO THLD 0.96 NM" TO "DISTANCE VDP TO THLD 1.05 NM" – NEW TARGETS CALCULATION AND IAW 8260.19I PARA 8-6-10.M.
18. ADDITIONAL FLIGHT DATA: CHANGED "FAC CROSSES RWY C/L EXTENDED 3942 FT FROM THLD" TO "FAC CROSSES RWY C/L EXTENDED 3617 FT FROM THLD" – NEW TARGETS CALCULATION AND IAW 8260.19I PARA 8-6-10.G.(2).
19. ADDITIONAL FLIGHT DATA: CHANGED "MOVBE TO RWY 17R: 3.05/55" TO "MOVBE TO RWY 18R: 3.05/55" – MAGVAR CHANGE/RUNWAY RENUMBERING AND IAW 8260.19I PARA 8-6-10.O.
20. ADDITIONAL FLIGHT DATA: ADDED "243 AAO 261727N/0974115W." - PER CURRENT EVALUATION AND IAW 8260.19I.
21. ADDITIONAL FLIGHT DATA: ADDED "CHART MFE 32.65 DME AT FAPOK" - IAW 8260.19I PARA 8-6-10.
22. MINIMUMS: S-17R: UPDATED TO S18R MINIMUMS – MAGVAR CHANGE/RUNWAY RENUMBERING.
23. MINIMUMS: S-18R MINIMUMS UPDATED ALL CATS MDA FROM "400" TO "440" AND HAT FROM "366" TO "405" – NEW CONTROLLING OBSTACLE IDENTIFIED.
24. MINIMUMS: CIRCLING: CAT A: UPDATED CAT C CMDA FROM "500" TO "460" AND HAA FROM "464" TO "424" - NEW CONTROLLING OBSTACLE IDENTIFIED.
25. MINIMUMS: CIRCLING: CAT C: UPDATED CAT C CMDA FROM "680" TO "600" AND HAT FROM "644" TO "564" – NEW CONTROLLING OBSTACLE IDENTIFIED.
26. MINIMUMS: CIRCLING: CAT C: UPDATED CAT C VIS FROM "1 3/4" TO "1 1/2" – NEW CONTROLLING OBSTACLE IDENTIFIED.

COORDINATED WITH:

A4A
 ALPA
 AOPA
 APA
 HAI
 NBAA
 OTHER: ZHU, HRL ATCT, VALLEY APP CON, ST. AV. DIR., APT MGR

FLIGHT CHECKED BY

PENDING

Digitally signed by
CASIMIR L TABAKA

Apr 08, 2024

OFFICE

DATE

DEVELOPED BY

ERIC N SUSKI (WESTLEY OWENS)

Digitally signed by
ERIC N SUSKI

Apr 05, 2024

OFFICE

AJV-A431

DATE

01/29/2024

APPROVED BY

ERIC N SUSKI

Digitally signed by
ERIC N SUSKI

Apr 05, 2024

OFFICE

AJV-A431

DATE

07/11/2024

TITLE

MANAGER

