

**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.

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>		
HRL	VOR RWY 36L	1	HARLINGEN	TX		
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
36	36	VOR/DME RWY 35L	ORIG-B	10/08/2020	5E	2005
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
HRL		11 JULY 2024	07/11/2024			

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>
HRL VOR/DME		AVAYA/5.68 DME	FAF/IAF				189.81	5.68	1600
BRO VORTAC	IAF	DAPSE INT/HRL 11.68 DME	NOPT				282.26	19.26	1600
DAPSE INT/HRL 11.68 DME	IF	AVAYA/5.68 DME					009.81	6.00 (HRL R-190)	1600

MISSED APPROACH

MAP:

ZERON/1.42 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1600 THEN RIGHT TURN DIRECT HRL VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
- HOLD S AVAYA/5.68 DME, RT, 009.81 INBOUND, 1600 FT. IN LIEU OF PT (IAF), MAX 6000.
- FAC:** 009.81 **FAF:** AVAYA/5.68 DME **DIST FAF TO MAP:** **DIST FAF TO THLD:** 4.74
- MIN ALT:** AVAYA/5.68 DME 1600, ICERA/3.36 DME 860
- MSA FROM:** HRL VOR/DME 180-300 2600, 300-180 1900



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PORT ISABEL ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET AND S-36L VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM.

CHART NOTE: VDP NA WHEN USING PIL ALTIMETER SETTING.

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
AVAYA TO RW36L: 3.00/55.

HOLD N, RT, 193.00 INBOUND.
CHART FAS OBST: 195 ANTENNA (48-178339) 261030N/0974016W.
CHART VDP AT 2.09 DME.
DISTANCE VDP TO THLD 1.16 NM.
FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.

MINIMUMS:

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

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

<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-36L	460	1	424	460	1	424	460	1 1/4	424	460	1 1/4	424			
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 35L TO VOR RWY 36L - DUE TO MAGVAR CHANGE/RUNWAY RENUMBERING AND IAW 8260.191 PARA 8-6-2.C.
2. TERMINAL ROUTES: UPDATED "HRL VOR/DME TO AVAYA/5.50 DME/193.00 COURSE/5.50 DIST" TO "HRL VOR/DME TO AVAYA/5.68 DME/189.81 COURSE/5.68 DIST" – NEW FAF LOCATION DUE TO RWY THRESHOLD CHANGE/OPTIMAL ALIGNMENT ADJUSTMENT
3. TERMINAL ROUTES: UPDATED "BRO VORTAC TO DAPSE/11.50 DME/282.64 COURSE/19.91 DIST" TO "BRO VORTAC TO DAPSE INT/HRL 11.68 DME/282.26 COURSE/19.26 DIST" – NEW IF LOCATION DUE TO RWY THRESHOLD CHANGE/OPTIMAL ALIGNMENT ADJUSTMENT
4. TERMINAL ROUTES: UPDATED "DAPSE/ HRL 11.50 DME TO AVAYA/5.50 DME/013.00 COURSE/6.00 (HRL R-193) DIST" TO "DAPSE INT/11.68 DME TO AVAYA/5.68 DME/09.81 COURSE/6.00 (HRL R-190) DIST" – NEW IF/FAF LOCATION DUE TO RWY THRESHOLD CHANGE/OPTIMAL ALIGNMENT ADJUSTMENT
5. MAP: UPDATED "ZERON/HRL 0.78 DME" TO "ZERON/HRL 1.42 DME" – NEW TARGETS CALCULATION AND IAW 8260.191 PARA 8-6-4.A.
6. MISSED APPROACH INSTRUCTIONS: UPDATED FROM "CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 1600 DIRECT HRL VOR/DME AND HOLD." TO "CLIMB TO 1600 THEN RIGHT TURN DIRECT HRL VOR/DME AND HOLD." – TARGETS EVALUATION IDENTIFIED A NEED TO CLIMB TO 1600 BEFORE TURN TO HRL VOR/DME
7. PROFILE LINE 2: CHANGED FROM "HOLD S AVAYA, RT, 013.00 INBOUND, 1600 FT. IN LIEU OF PT (IAF), MAX 6000" TO "HOLD S AVAYA, RT, 009.81 INBOUND, 1600 FT. IN LIEU OF PT (IAF), MAX 6000" - NEW AVAYA FIX LOCATION DUE TO RWY THRESHOLD CHANGE/OPTIMAL ALIGNMENT ADJUSTMENT
8. PROFILE LINE 3: FAC/FAF/DIST FAF: CHANGED FROM "013.00/AVAYA/5.50 DME/4.72" TO "09.81/AVAYA/5.68 DME/4.74" – IAW 8260.191 PARA 8-6-7.C.
9. PROFILE LINE 4: CHANGED FROM "AVAYA/5.50 DME 1600, ICERA/3.20 DME 860" TO "AVAYA/5.68 DME 1600, ICERA/HRL 3.36 DME 860" - NEW AVAYA FIX LOCATION DUE TO RWY THRESHOLD CHANGE/OPTIMAL ALIGNMENT ADJUSTMENT
10. EQUIPMENT REQUIREMENT NOTES: ADDED "DME REQUIRED" – IAW 8260.191 PARA 8-6-8.A.(2).
11. NOTES: ADDED "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PORT ISABEL ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET AND S-36L VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM" - IAW 8260.191 8-6-9.F.(4) AND 8-6-11.N.(1).
12. NOTES: ADDED "VDP NA WHEN USING PIL ALTIMETER SETTING" – IAW 8260.191 PARA 8-6-9.E.(9).
13. ADDITIONAL FLIGHT DATA: UPDATED VDP FROM 1.86 DME/ 1.08NM TO 1.92 DME/0.98NM - NEW TARGETS CALCULATION DUE TO OPTIMAL ALIGNMENT ADJUSTMENT
14. ADDITIONAL FLIGHT DATA: DELETED "CHART FAS OBST: 182 OL ON TANK (KHRL023) 261007N/0974139W." AND REPLACED WITH "CHART FAS OBST: 195 ANTENNA (48-178339) 261030N/0974016W." – NEW TARGETS EVALUATION DUE TO OPTIMAL ALIGNMENT ADJUSTMENT
15. ADDITIONAL FLIGHT DATA: CHANGED "FAC CROSSES RWY C/L EXTENDED 2864 FT FROM THLD." TO "FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD." – NEW TARGETS CALCULATION AND IAW 8260.191 PARA 8-6-10.G.(2).
16. ADDITIONAL FLIGHT DATA: CHANGED "AVAYA TO RW35L: 3.00/59." TO "AVAYA TO RW36L: 3.00/55." – MAGVAR CHANGE/RUNWAY RENUMBERING AND IAW 8260.191 PARA 8-6-10.O.
17. ADDITIONAL FLIGHT DATA: DELETED "CHART CIRCLING ICON" – IAW FAA MEMO "REVISED CIRCLING MANEUVERING AREA CRITERIA IMPLEMENTATION PLAN" DATED 09/30/2021.
18. MINIMUMS – ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" - IAW 8260.191, ATTACHMENT 4: CRITERIA CLARIFICATIONS, PARA 5.B.
19. MINIMUMS: S-35L: UPDATED TO S36L MINIMUMS – MAGVAR CHANGE/RUNWAY RENUMBERING.
20. MINIMUMS: S-36L MINIMUMS UPDATED ALL CATS MDA FROM "440" TO "460" AND HAT FROM "404" TO "424" – NEW CONTROLLING OBSTACLE IDENTIFIED.
21. MINIMUMS: CIRCLING: CAT A: UPDATED MDA/VIS/HAT FROM "500/1/464" TO "460/1/424" – NEW CONTROLLING OBSTACLE IDENTIFIED.
22. MINIMUMS: CIRCLING: CAT B: UPDATED MDA/VIS/HAT FROM "560/1/524" TO "560/1/524" – NEW CONTROLLING OBSTACLE IDENTIFIED.
23. MINIMUMS: CIRCLING: CAT C: UPDATED MDA/VIS/HAT FROM "680-1 3/4-524" TO "600-1 1/2-564" – NEW CONTROLLING OBSTACLE IDENTIFIED.
24. MINIMUMS: CIRCLING: CAT D: UPDATED MDA/VIS/HAT FROM "680/2/644" TO "680/2/644" – NEW CONTROLLING OBSTACLE IDENTIFIED.

04/26/24: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 04/05/2024.

1. ADDED NOTE "VGSi AND DESCENT ANGLES NOT COINCIDENT '(VGSi ANGLE {ANGLE}/TCH {FEET})" - IAW 8260.191 8-6-9M(2).

COORDINATED WITH:

A4A
 ALPA
 AOPA
 APA
 HAI
 NBAA
 OTHER: ZHU, HRL ATCT, VALLEY APP CON, AMGR

FLIGHT CHECKED BY

PENDING

Digitally signed by
CASIMIR L TABAKA
 Apr 05, 2024

OFFICE

DATE

DEVELOPED BY

JOSEPH BLANCO

Digitally signed by
JOSEPH A BLANCO
 Mar 28, 2024

OFFICE

AJV-A432

DATE

01/31/2024

APPROVED BY

BEV L BORDY

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CASIMIR L TABAKA
 Apr 05, 2024

OFFICE

AJV-A430

DATE

TITLE
MANAGER

