

**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 Z RWY 31 | 2 | 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SUPERSEDED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 Z RWY 31 | 1 | 03/02/2017 | 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 | | BOBPA/HRL 6.00 DME | | | | | 145.49 | 6.00 | 1800 |
| BRO VORTAC | IAF | GICER/HRL 12.00 DME | NOPT | | | | 301.79 | 11.96 | 1800 |
| GICER/HRL 12.00 DME | IF | BOBPA/HRL 6.00 DME | | | | | 325.48 | 6.00 (HRL R-145) | 1800 |

MISSED APPROACH

MAP:

JARVI/HRL 0.64 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2100 DIRECT HRL VOR/DME AND HOLD, CONTINUE CLIMB AND HOLD TO 2100.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT L SIDE OF COURSE 145.49 OUTBOUND 1800 FT WITHIN 10 MILES OF BOBPA/HRL 6.00 DME (IAF)
-
- FAC: 325.49 FAF: BOBPA/HRL 6.00 DME DIST FAF TO MAP: DIST FAF TO THLD: 5.37
- MIN ALT: BOBPA/HRL 6.00 DME 1800, NOPAE/HRL 2.86 DME 800
- MSA FROM: HRL VOR/DME 180-300 2600, 300-180 1900



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART NOTE: VDP NA WHEN USING PORT ISABEL ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PORT ISABEL ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET AND S-31 VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-31 CATS C/D VISIBILITIES TO 1 1/8 SM.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BRO VORTAC AIRWAY RADIALS 258 CW 349.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 146.00 INBOUND.
CHART FAS OBST: 138 TRANSMISSION LINE (48-029096) 261132N/0973656W.
CHART 376 TOWER (48-195046) 260801N/0973650W.
CHART VDP AT 1.66 DME.
DISTANCE VDP TO THLD 1.03 NM.
FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.
BOBPA TO RW31: 3.00/55.
CHART CIRCLING ICON.

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 |
| S-31 | 420 | 1/2 | 384 | 420 | 1/2 | 384 | 420 | 3/4 | 384 | 420 | 3/4 | 384 | | | |
| CIRCLING | 460 | 1 | 424 | 560 | 1 | 524 | 600 | 1 1/2 | 564 | 680 | 2 | 644 | | | |



CHANGES - REASONS

1. TERMINAL ROUTES: SEGMENT HRL VOR/DME TO BOBPA, CHANGED FROM "BOBPA/6.00 DME" TO "BOBPA/HRL 6.00 DME, AND COURSE CHANGED FROM "145.48" TO "145.49" – BRO VORTAC IS USED IN ONE SEGMENT ON PROCEDURE, THIS IS TO PREVENT CONFUSION/TARGETS CALCULATED VALUE.
2. TERMINAL ROUTES: SEGMENT BRO VORTAC TO GICER, CHANGED FROM "GICER/12.00 DME" TO "GICER/HRL 12.00 DME," AND ADDED "NOPT"– BRO VORTAC IS USED IN ONE SEGMENT ON PROCEDURE, THIS IS TO PREVENT CONFUSION/THIS IAF MEETS ALIGNMENT AND DESCENT GRADIENT REQUIREMENTS IAW 8260.19, 8-2-5.G.
3. TERMINAL ROUTES: SEGMENT GICER TO BOBPA, CHANGED FROM "GICER/12.00 DME" TO "GICER/HRL 12.00 DME," CHANGED FROM "BOBPA/6.00 DME" TO "BOBPA/HRL 6.00 DME," – ADDED HRL ID TO PREVENT CONFUSION.
4. MISSED APPROACH INSTRUCTIONS: CHANGED FROM "CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2000 DIRECT HRL VOR/DME AND HOLD" TO "CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2100 DIRECT HRL VOR/DME AND HOLD, CONTINUE CLIMB AND HOLD TO 2100" – CURRENT CRITERIA REQUIRES CIH.
5. PROFILE LINE 1: CHANGED "145.48" TO "145.49" AND CHANGED "BOBPA" TO "BOBPA/HRL 6.00 DME" – TARGETS CALCULATED VALUE/ADDED HRL TO PREVENT CONFUSION.
6. PROFILE LINE 3: FAC CHANGED FROM "325.48" TO "345.49," AND FAF CHANGED FROM "BOBPA" TO "BOBPA/HRL 6.00," – FAF AMD MAP FIXES MOVED/ADDED HRL TO PREVENT CONFUSION.
7. PROFILE LINE 4: MIN ALTITUDE CHANGED FROM "BOBPA/6.00 DME 1800, NOPAE/2.86 DME 800" TO "BOBPA/HRL 6.00 DME 1800, NOPAE/HRL 2.86 DME 800" – ADDED HRL TO PREVENT CONFUSION.
8. NOTES: ADDED "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PORT ISABEL ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET AND S-31 VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM" – FPT REQUESTS CHARTING OF SECONDARY ALTIMETER NOTES.
9. NOTES: ADDED "CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-31 CATS C/D VISIBILITIES TO 1 1/8 SM" – NEW VIS CHARTS/IAW 8260.19, 8-6-11.
10. NOTES: ADDED "VDP NA WHEN USING PORT ISABEL ALTIMETER SETTING" – IAW 8460.19, 8-6-9. E.
11. ADDITIONAL FLIGHT DATA: CHANGED CHART FAS OBSTACLE FROM "138 TOWER 261154N/0973903W" TO "138 TRANSMISSION_LINE (48-029096) 261132N/0973656W" – NEW CONTROLLING OBSTACLE/NEW AIRPORT SURVEY.
12. ADDITIONAL FLIGHT DATA: ADDED "CHART 376 TOWER 260801N/0973650W" – 7:1 OBSTACLE AT THE FAF.
13. ADDITIONAL FLIGHT DATA: CHANGED FROM "FAC CROSSES RWY C/L EXTENDED 2999 FT FROM THLD" TO "FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD – FAF/MAP MOVED.
14. ALTERNATE MINIMUMS: ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" – BACK UP ALTIMETER ON PROCEDURE.
15. MINIMUMS: CIRCLING CAT A MDA/HAA CHANGED FROM "500/464" TO "460/424", CAT C MDA/VIS/HAA CHANGED FROM "680/1 3/4/644" TO "600/1 1/2/564" – NEW SURVEY/ OBSTACLES/NEW VIS CHARTS.
16. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BRO VORTAC AIRWAY RADIALS 258 CW 349" – TURNS GREATER THAN 120 DEGREES.

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 08, 2024

OFFICE

DATE

DEVELOPED BY

APRIL SARMENTO

Digitally signed by
APRIL T SARMENTO
 Mar 29, 2024

OFFICE

AJV-A432

DATE

01/31/2024

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by
CASIMIR L TABAKA
 Apr 08, 2024

OFFICE

AJV-A432

DATE

TITLE
MANAGER

