

**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.

<u>AIRPORT ID</u> KVHN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 21	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> VAN HORN	<u>STATE</u> TX		
<u>AIRPORT ELEVATION</u> 3957	<u>TDZE</u> 3939	<u>SUPERSEDED</u> RNAV (GPS) RWY 21	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 07/23/2015	<u>MAG VAR</u> 10E	<u>EPOCH YEAR</u> 1990
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 7 OCTOBER 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

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>
AGAZY		FOLAN		TF	FB	1.00	242.41	19.95	8700
HUP VORTAC		PONUE		TF	FB	1.00	106.30	35.98	8800
FOLAN	IAF	HORNA		TF	FB	1.00	304.68	8.80	7100
PONUE	IAF	HORNA		TF	FB	1.00	124.56	8.80	7100
HORNA	IF	HOSAR		TF	FB	1.00	214.62	6.01	5600
HOSAR	FAF	RW21	MAP	TF	FO	0.30	214.58	5.06	
RW21	MAP	4357 MSL		CA			214.58		
4357 MSL		COSIM		DF	FB	1.00			
COSIM		WIKOR		TF	FB	1.00	304.48	8.80	
WIKOR		PONUE		TF	FO	1.00	034.41	20.07	8800

MISSED APPROACH

MAP:
LNAV: RW21

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 8800 DIRECT COSIM AND ON TRACK 304.48 TO WIKOR AND ON TRACK 034.41 TO PONUE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT HORNA

3. FAC:

214.58

FAF: HOSAR

DIST FAF TO MAP: 5.06

DIST FAF TO THLD: 5.06

4. MIN ALT: HORNA 7100, HOSAR 5600

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

GS ANT:

6. MIN GP INCPT:

GP ALT AT FAF :

OM:

MM:

IM:

7. GP ANGLE:

34:1: IS CLEAR

20:1: IS CLEAR

TCH:

8. MSA FROM: RW21 8600

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING TO RWY 7, 25 NA AT NIGHT.
CHART NOTE: CIRCLING NA S OF RWY 25 AND SE OF RWY 3.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HUP VORTAC ON V66 WESTBOUND.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

HOLD SW, LT, 034.55 INBOUND.
CHART FAS OBST: 4059 TREE 310409N/1044720W.
CHART VDP AT 1.43 NM TO RW21.
CHART CIRCLING ICON.
HOSAR TO RW21: 3.04/45.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 1700-3

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
LNAV MDA	4400	1	461	4400	1	461	4400	1 3/8	461	4400	1 3/8	461			
CIRCLING	4440	1	483	4540	1	583	4640	2	683	5580	3	1623			



CHANGES - REASONS

1. TERMINAL ROUTES: ADDED HOSAR TO RW21 - SEGMENT MISSING.
2. CHANGED TERMINAL ROUTES CA LEG FROM RW21 TO 4300 -TO - RW21 TO 4357- MISSED APPROACH ADJUSTMENT.
3. CHANGED TERMINAL CA LEG COURSE FROM 214.57 TO 214.58 - NEW TARGETS BUILD AND ROUNDING.
4. CHANGED MISSED APPROACH INSTRUCTIONS FROM CLIMB TO 8800 DIRECT COSIM WP, AND VIA 304 TRACK TO WIKOR WP AND WP AND VIA 034 TRACK TO PONUE WP AND HOLD -TO- CLIMB TO 8800 DIRECT COSIM AND ON TRACK 304.48 TO WIKOR AND ON TRACK 0.34.41 TO PONUE AND HOLD - IAW 8260.19H 8-6-6.D(11).
5. PROFILE VIEW LINE 3: ADDED 5.06 TO DIST TO MAP - IAW 8260.19H, 8-6-7C(3).
6. PROFILE VIEW LINE 3: CHANGED FAC COURSE FROM 214.57 TO 214.58 - NEW TARGETS BUILD AND ROUNDING.
7. PROFILE VIEW LINE 7: ADDED "20:1 IS CLEAR" - 8260.19H, 8-6-7.G(3).
8. PROFILE VIEW LINE 8: CHANGED MSA FROM RW21 8700 TO RW21 8600 - NEW TARGETS EVALUATION.
9. REMOVED PROCEDURE NA FOR ARRIVALS AT AGAZY ON V198 SOUTHEAST BOUND AND PROCEDURE NA FOR ARRIVAL ON HUP VORTAC AIRWAY RADIALS 047 CW 167 AND ADDED CHART PLAN VIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HUP VORTAC ON V66 WESTBOUND - CORRECTED TO REFLECT CURRENT AVAILABLE AIRWAY STRUCTURE.
10. REMOVED NOTE: "DME/DME RNP-0.3 NA" AND ADDED PBN REQUIREMENTS NOTE: "RNP APCH" - 8260.19H, 8-6-8.B(1).
11. REMOVED OBTAIN LOCAL ALTIMETER SETTING ON CTAF, WHEN NOT RECEIVED, PROCEDURE NA - WEATHER NOW ON SERVICE A/WMSCR.
12. CHANGED CHART PROFILE NOTE FROM VGSI AND DESCENT ANGLES NOT COINCIDENT -TO- VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - 8260.19H, 8-6-9.M (2).
13. CHANGED CHART NOTE FROM NIGHT LANDING: RWY 7, 25 NA -TO- CIRCLING TO RWY 7, 25 NA AT NIGHT - 20:1 PENETRATIONS 8260.19.O(2)(H).
14. ADDITIONAL FLIGHT DATA:
CHANGED FAS OBST FROM 4039 TREE 310400N/1044712W TO CHART FAS OBST 4059 TREE 310409N/1044720W - NEW CONTROLLING OBSTACLE.
CHANGED CHART VDP AT 1.12 NM TO RW21 -TO- CHART VDP AT 1.43 NM TO RW21 - NEW TARGETS EVALUATION AND IAW 8260.19H, 8-6-10.N(3).
REMOVED FINAL SEGMENT (TF) - NO LONGER REQUIRED.
CHANGED HOSAR TO RW21 FROM 3.05/45 TO 3.04/45 - NEW TARGETS EVALUATION.
ADDED CHART CIRCLING ICON - UPDATED TO NEW CIRCLING CRITERIA; 8260.19H 8-6-10.T.
15. ADDED ALTERNATE MINS "STANDARD - CAT D 1700-3" - AIRPORT ON WMSCR.
16. CHANGED LNAV HAT/MDA ALL CATS FROM 361/4300 TO 461/4400 - MISSED APPROACH CONTROLLING OBSTACLE ADJUSTMENT.
17. CHANGED CIRCLING HAA/MDA CAT B FROM 503/4460 TO 583/4540 AND CAT C FROM 523/4480 TO 683/4640 AND CAT D FROM 883/4840 TO 1623/5580 - UPDATED TO NEW CIRCLING.
18. CHANGED LNAV VISIBILITY CAT C FROM 1 1/4 TO 1 3/8 AND CAT D FROM 1 1/4 TO 1 3/8 AND CIRCLING VISIBILITY CAT C FROM 1 1/2 TO 2 - UPDATED VISCHECK RESULTS.

7/09/2021: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 02/04/2021:

1. ADDED CHART NOTE: CIRCLING NA S OF RWY 25 AND SE OF RWY 3 - FPT REQUEST.

COORDINATED WITH:

A4A ☒ **ALPA** ☐ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAB, AMGR.

FLIGHT CHECKED BY

MATTHEW RYAN BUFORD

Digitally signed by
JASON KRETSCHMER
Jul 21, 2021

OFFICE
FIOG

DATE
06/24/2021

DEVELOPED BY

JASON KRETSCHMER (RAYMOND JOHNSON)

Digitally signed by
JASON KRETSCHMER
Jul 21, 2021

OFFICE
AJV-A421

DATE
06/26/2020

APPROVED BY

MARLON ROBINSON

Digitally signed by
JASON KRETSCHMER
Jul 21, 2021

OFFICE
AJV-A420

DATE

TITLE
MANAGER