

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) 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> KHRL	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 35L	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> HARLINGEN	<u>STATE</u> TX		
<u>AIRPORT ELEVATION</u> 36	<u>TDZE</u> 36	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 35L	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 04/02/2015	<u>MAG VAR</u> 5E	<u>EPOCH YEAR</u> 2005
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 3 NOVEMBER 2022	<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>
ALUDE	IF	URAVE		TF	FB	1.00	175.53	4.08	3000
URAVE		OCORA		RF	FB	1.00	(2.43 NM RADIUS CW (CFPQR))	5.63	1500
OCORA		QUTIE		RF	FB	1.00	(2.43 NM RADIUS CW (CFPQR))	2.01	1100
BOTVE	IF	FENKU		TF	FB	1.00	355.63	4.20	1900
FENKU		QUTIE		TF	FB	1.00	355.63	3.00	1100
KAHNS	IF	MINUE		TF	FB	1.00	175.73	4.31	3000
MINUE		SAZUK		RF	FB	1.00	(2.43 NM RADIUS CCW (CFPQQ))	5.63	1500
SAZUK		QUTIE		RF	FB	1.00	(2.43 NM RADIUS CCW (CFPQQ))	2.01	1100
QUTIE	PFAF	RW35L	MAP	TF	FO	0.30	355.63	3.16	
RW35L	MAP	ZIPIV		TF	FO	1.00	355.63	11.75	2000

MISSED APPROACH

MAP:
RNP: DA

MISSED APPROACH INSTRUCTIONS:
CLIMB TO 2000 ON TRACK 355.63 TO ZIPIV AND HOLD

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT QUTIE

3. FAC: 355.63

PFAF: QUTIE

DIST FAF TO MAP:

DIST FAF TO THLD:

4. MIN ALT: QUTIE 1100

5. DIST TO THLD FROM PFAF: 3.16

MM:

IM:

150 HAT:

298 HAT: 0.75

GS ANT:

6. MIN GP INCPT: 1100

GP ALT AT PFAF : QUTIE 1100

OM:

MM:

IM:

7. GP ANGLE: 3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 59.0

8. MSA FROM: RW35L 2600

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -1°C OR ABOVE 54°C.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART SPEED ICON IN PLANVIEW AT URAVE: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT MINUE: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART MINIMUM 4000 AT ALUDE
CHART MINIMUM 3000 AT BOTVE
CHART MINIMUM 4000 AT KAHNS
HOLD N, RT, 175.63 INBOUND.
CHART 135 TOWER 261156N/0973946W.

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
AUTHORIZATION REQUIRED															
RNP 0.14 DA	334	7/8	298	334	7/8	298	334	7/8	298	334	7/8	298			
RNP 0.30 DA	484	1 3/8	448	484	1 3/8	448	484	1 3/8	448	484	1 3/8	448			

CHANGES - REASONS

1. INCORPORATED CHANGES FROM FDC NOTAM 5/6349 ONTO THE FORMS
2. AMENDED PROFILE LINE 5 FROM "DIST TO THLD FROM OM: 3.16" TO "DIST TO THLD FROM PFAF: 3.16" - REFORMATTED IAW 8260.19I 8-6-7 E
3. AMENDED PROFILE LINE 5 TO ADD "DIST TO THLD FROM 298 HAT: 0.75" - ADDED IAW 8260.19I 8-6-7 E(3)
4. AMENDED PROFILE LINE 7 FROM "34:1: IS NOT CLEAR" TO "34:1: IS CLEAR" - NO 34:1 PENETRATIONS FOUND IN EVALUATION AND 8260.19I 8-6-7 G(3)(A)
5. AMENDED PROFILE LINE 7 TO ADD "20:1: IS CLEAR" - ADDED IAW 8260.19I 8-6-7 G(3)(A)
6. AMENDED PBN REQUIREMENTS NOTES TO ADD "RNP AR APCH - GPS" AND DELETED "CHART NOTE: GPS REQUIRED" FROM NOTES - IAW 8260.19I 8-6-8 B(1) AND ATTACHMENT 4 - CRITERIA CLARIFICATION, #7 OF THE IMPLEMENTATION MEMO FOR FAA ORDER 8260.19I - FLIGHT PROCEDURES AND AIRSPACE DATED JUNE 29, 2020
7. AMENDED NOTE FROM "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 2°C (36°F) OR ABOVE 44°C (111°F)" TO "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -1°C OR ABOVE 54°C" - RECALCULATED WITH UPDATED WEATHER DATA AND FORMATTED TO CURRENT CRITERIA IAW 8260.19I 8-6-9 R
8. AMENDED NOTES TO DELETE "CHART NOTE: WHEN VGSI INOP, PROCEDURE NA AT NIGHT" - NO VISUAL OIS PENETRATIONS NOTED BY TARGETS
9. AMENDED NOTES TO DELETE "CHART PLANVIEW NOTE ADJACENT TO ALUDE: RF REQUIRED" AND "CHART PLANVIEW NOTE ADJACENT TO KAHNS: RF REQUIRED" - NO LONGER NEEDED IAW 8260.19I 1-1-5 D(5)
10. AMENDED ADDITIONAL FLIGHT DATA TO DELETE "ROUTE TYPE: A, H", "ROUTE TYPE QUALIFIER 1: F", AND "ROUTE TYPE QUALIFIER 2: S" - NO LONGER NEEDED IAW 8260.19H 1-1-5 H(28)
11. AMENDED ADDITIONAL FLIGHT DATA FROM "CHART FAS OBST: 135 TOWER 261156N/0973946W, 83 TREE 261227N/0973854W" TO "CHART 135 TOWER 261155.50N/0973945.70W" - NO NON-PRECISION FINAL CONTROLLING OBSTACLE IN THIS PROCEDURE AND AS THIS OBSTACLE COULD BE CRITICAL TO FLIGHT SAFETY, IT IS PROVIDED TO CHARTING TO REMAIN ON THE CHART IAW 8260.19I 8-6-10 C AND D
12. AMENDED RNP 0.14 DA ALL CATS VISIBILITY FROM "1" TO "7/8" - 8260.3E TABLE 3-3-1 FOR A 298 HAT WITH NALS
13. DELETED RNP 0.29 LINE OF MINIMA - COULDN'T ATTAIN A 50 FT REDUCTION IN HAT BETWEEN RNP 0.29 AND RNP 0.30 LINES OF MINIMA WITH NEWLY IDENTIFIED MA PENETRATIONS IAW 8260.58B 4-1-1 C(2)(A)
14. AMENDED RNP 0.30 MINIMUMS FROM "DA 479/HAT 443" TO "DA 484/HAT 448" - INCREASED OCS FROM 20.09:1 TO 20.34:1
15. AMENDED RNP 0.30 DA ALL CATS VISIBILITY FROM "1 1/2" TO "1 3/8" - 8260.3E TABLE 3-3-1 FOR A 443 HAT WITH NALS

COORDINATED WITH:

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

FLIGHT CHECKED BY
MICHAEL S MILLER

Digitally signed by
JULIE A MORGAN
Sep 09, 2022

OFFICE
FPO
DATE
09/07/2022

DEVELOPED BY
KELLY CARLSON

Digitally signed by
MARK D ADAMS
Jul 07, 2022

OFFICE
AJV-A412
DATE
05/03/2022

APPROVED BY *Digitally signed by*
MARK ADAMS **MARK D ADAMS**
Jul 07, 2022

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DATE
TITLE
MANAGER

QUALITY
25
CHECKED