

**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> T69	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> SINTON	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 48	<u>TDZE</u> 48	<u>SUPERSEDED</u> RNAV (GPS) RWY 14	<u>DATED</u> 12/31/2020	<u>MAG VAR</u> 6E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2000
				<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>
AUSTS		HUGUE		TF	FB	1.00	272.89	18.62	2100
HUGUE	IAF	ENFUD		TF	FB	1.00	229.87	10.00	2100
SKIDS	IAF	ENFUD		TF	FB	1.00	094.32	7.85	2100
FIGNU	IAF	ENFUD		TF	FB	1.00	049.82	4.44	2100
ENFUD	IF	ELFIY		TF	FB	1.00	139.80	5.00	1700
ELFIY	FAF	BOMSE/2.95 NM TO RW14		TF	FB	0.30	139.83	2.05	
BOMSE/2.95 NM TO RW14		RW14	MAP	TF	FO	0.30	139.83	2.95	
RW14	MAP	500 MSL		CA			139.83		500
500 MSL		HUGUE		DF	FO	1.00			2100

MISSED APPROACH

MAP:

LNAV: RW14

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 500 THEN CLIMBING LEFT TURN TO 2100 DIRECT HUGUE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT
- SIDE OF COURSE
- OUTBOUND
- FT WITHIN
- MILES OF (IAF)
- PROFILE STARTS AT ENFUD
- FAC: 139.83 FAF: ELFIY DIST FAF TO MAP: 5.00 DIST FAF TO THLD: 5.00
- MIN ALT: ENFUD 2100, ELFIY 1700, BOMSE/2.95 NM TO RW14 1040
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: MM: IM:
- MIN GP INCPT: GP ALT AT FAF:
- GP ANGLE: 34:1 IS NOT CLEAR 20:1 IS NOT CLEAR TCH:
- MSA FROM: RW14 2100

QUALITY
40
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 229.87 INBOUND.
FAS OBST: 154 TREE 280430N/0973442W.
CHART AT OR ABOVE 2100 AT HUGUE.
CHART AT OR ABOVE 2100 AT SKIDS.
CHART AT OR ABOVE 2100 AT FIGNU.
ELFIY TO RW14: 3.04/40.

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
LNAV MDA	420	1	372	420	1	372		NA			NA				
CIRCLING	620	1	572	720	1	672		NA			NA				

CHANGES - REASONS

1. TERMINAL ROUTES: REMOVED CRP VORTAC TO HUGUE AND ALL ASSOCIATED DATA – CHANGE IN COURSE EXCEEDS THE 90 DEGREES IAW 8260.19J.
2. TERMINAL ROUTES: REMOVED THX VORTAC TO FIGNU AND ALL ASSOCIATED DATA – THX VORTAC DECOMMISSIONING.
3. TERMINAL ROUTES: ADDED SKIDS TO ENFUD AND ALL ASSOCIATED DATA- IAF SKIDS IS REPLACING THX VORTAC FEEDER.
4. TERMINAL ROUTES: CHANGED FIGNU TO ENFUD COURSE AND DISTANCE FROM “049.81/5.00” TO “049.82/4.44” – FIGNU MOVED PER FPT REQUEST.
5. TERMINAL ROUTES: CHANGED ELFIY TO BOMSE FROM “BOMSE/2.50 NM TO RW14” TO “BOMSE/2.95 NM TO RW14” AND DISTANCE FROM “2.50” TO “2.05” – STEP-DOWN FIX MOVED TO MAINTAIN VDA IAW 8260.3F AND 8260.19J
6. TERMINAL ROUTES: CHANGED BOMSE TO RW14 FROM “BOMSE/2.50 NM TO RW14” TO BOMSE/2.95 NM TO RW14” AND DISTANCE FROM “2.50” TO “2.95” – STEP-DOWN FIX MOVED TO MAINTAIN VDA IAW 8260.3F AND 8260.19J.
7. TERMINAL ROUTES: CHANGED “RW14 TO 448 MSL” TO “RW14 TO 500 MSL” – MDA IS LESS THAN 400 FEET ABOVE AIRPORT ELEVATION REQUIRING A CLIMB-TO ALTITUDE IAW 8260.58C.
8. TERMINAL ROUTES: ADDED ALTITUDE “500” TO LINE RW14 TO 500 MSL – MDA IS LESS THAN 400 FEET ABOVE AIRPORT ELEVATION REQUIRING A CLIMB-TO ALTITUDE IAW 8260.58C.
9. MISSED APPROACH INSTRUCTIONS: CHANGED FROM “CLIMBING LEFT TURN TO 2100 DIRECT HUGUE AND HOLD” TO “CLIMB TO 500 THEN CLIMBING LEFT TURN TO 2100 DIRECT HUGUE AND HOLD” - MDA IS LESS THAN 400 FEET ABOVE AIRPORT ELEVATION REQUIRING A CLIMB-TO ALTITUDE IAW 8260.58C.
10. PROFILE: LINE 4 CHANGED FROM “ENFUD 2100, ELFIY 1700, BOMSE/2.50 NM TO RW14 1040” TO “ENFUD 2100, ELFIY 1700, BOMSE/2.95 NM TO RW14 1040” – STEP-DOWN FIX MOVED TO MAINTAIN VDA IAW 8260.3F AND 8260.19J.
11. PBN REQUIREMENTS NOTE: CHANGED FROM “RNP APCH” TO “RNP APCH – GPS” – CRITERIA UPDATE IAW 8260.19J.
12. NOTES: REMOVED “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CRP VORTAC ON V20-70 SOUTHWEST BOUND” – CRP VORTAC REMOVED FROM PROCEDURE.
13. NOTES: ADDED “CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - VDA/TCH NOT COINCIDENT WITH VGSI IAW 8260.19J.
14. ADDITIONAL FLIGHT DATA: REMOVED “CHART FAS OBST: 137 TRANSMISSION LINE 280235N/0973215W” AND “CHART 141 TREE 280424N/0973518W” – NEW FAS OBSTACLE IDENTIFIED IAW 8260.19J.
15. ADDITIONAL FLIGHT DATA: ADDED “FAS OBST: 154 TREE 280430N/0973442W” NEW FAS OBSTACLE IDENTIFIED IAW 8260.19J.
16. ADDITIONAL FLIGHT DATA: REMOVED “295 AAO 280554N/0973630W” – NEW 7:1 OBSTACLE IDENTIFIED AND MOVED TO PART C GENERAL REMARKS IAW 8260.19J.
17. ADDITIONAL FLIGHT DATA: ADDED “ELFIY TO RW14: 3.04/40” – IAW 8260.19J.
18. ADDITIONAL FLIGHT DATA: ADDED "CHART AT OR ABOVE 2100 AT HUGUE" - FPT/ATC REQUEST.
19. ADDITIONAL FLIGHT DATA: ADDED "CHART AT OR ABOVE 2100 AT SKIDS" - FPT/ATC REQUEST.
20. ADDITIONAL FLIGHT DATA: ADDED "CHART AT OR ABOVE 2100 AT FIGNU" - FPT/ATC REQUEST.
21. MINIMUMS: CHANGED LNAV MDA CAT A/B FROM “480” TO “420” AND LNAV HAT CAT A/B FROM “432” TO “372” – NEW CONTROLLING OBSTACLE IDENTIFIED IAW 8260.19J.



COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER: ARPT MGR.

FLIGHT CHECKED BY

COLTON CROWDER

Digitally signed by

RAKE MCGRAW

Jun 06, 2025

OFFICE

AJF

DATE

06/04/2025

DEVELOPED BY

ROBERT G HAMILTON (CODY J. GIVEN)

Digitally signed by

CASEY D HILL

Apr 18, 2025

OFFICE

AJV-A431

DATE

03/11/2025

APPROVED BY

ROBERT G HAMILTON

Digitally signed by

CASEY D HILL

Apr 18, 2025

OFFICE

AJV-A433

DATE

08/07/2025

TITLE

MANAGER

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
T69	RNAV (GPS) RWY 14	1	SINTON	TX	48	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM AUSTS **TO** HUGUE

RNP 1.00 DISTANCE 18.62 PAT MAP HAT HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
WINDMILL (48-186782)	281727.20N/0973028.66W	759	250	50	4D	1000				AT341	2100
TERRAIN	281800.00N/0973006.00W	141 (100)								AS1500	1600

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM HUGUE **TO** ENFUD

RNP 1.00 DISTANCE 10.00 PAT MAP HAT HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
WINDMILL (48-186782)	281727.20N/0973028.66W	759	250	50	4D	1000				AT341	2100
TERRAIN	281736.00N/0973027.00W	144 (100)								AS1500	1600

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

QUALITY
40
CHECKED

INITIAL

FROM

SKIDS

TO

ENFUD

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	7.85										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
WINDMILL (48-156178)	281029.37N/0974617.64W	674	250	50	4D	1000				AT426	2100
TERRAIN	281227.00N/0974748.00W	209 (200)								AS1500	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

FIGNU

TO

ENFUD

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>				<u>HMAS</u>	
1.00	4.44										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
WINDMILL (48-158584)	280912.57N/0974437.09W	661	250	50	4D	1000				AT439	2100
TERRAIN	280954.00N/0974424.00W	157 (200)								AS1500	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE

FROM

ENFUD

TO

ELFIY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	5.00										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
WINDMILL (48-155575)	281042.45N/0974152.55W	636	250	50	4D	500				SA-231 AT795	1700
TERRAIN	281018.00N/0974115.00W	134 (100)								AS1500	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

ELFIY

TO

BOMSE/2.95 NM TO RW14

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.05										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	280618.00N/0973715.00W	305	215	8	4B	250				RA40 DG445	1040

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV STEPDOWN

FROM

BOMSE/2.95 NM TO RW14

TO

RW14

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	2.95		RW14	372	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE	280430.00N/0973442.00W	154	250	10	4B	250					420

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW14

TO

HUGUE

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					320

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2100
WINDMILL (48-186782)	281727.20N/0973028.66W	759	250	50	4D	1000					1800
TERRAIN	281648.00N/0973118.00W	134 (100)								AS1500	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (48-190641)	280124.11N/0973112.08W	1.30	572	248	250	50	4D	300		AC50 XP22	620
CATEGORY B											
TOWER (48-000924)	280235.00N/0973044.00W	1.81	672	324	20	50	1D	300		AC50 XP46	720

CIRCLING REMARKS:

RETAIN CURRENT PUBLISHED MINIMUMS PER FAA MANAGMENT.

MSA

CENTER

RW14

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (48-004826)	274511.95N/0973815.22W	190	18.0	1050	20	10	1B	1000			2100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

CRP TOWER, ZHU ARTCC

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3	T69	24	T69	0	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	CRP	24	CRP	16.14	Y	40

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME.
KT69 48, KCRP 69.
RA = 39.7.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW21			
RW03			
RW14 - REIL (PCL), MIRL (PCL), PAPI-2L		NPI-G	
RW32 - REIL (PCL), MIRL (PCL), PAPI-2L		NPI-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
					3.00	19.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	250
ON CENTERLINE	☒	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

PENETRATIONS REMARKS:
APT RWY'S HAVE NO SURVEY, SO 34:1 AND/OR 20:1 PENETRATIONS ARE ASSUMED TO EXIST.



HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ASSUMED VEGETATION 75 FEET PER FPT.

VDP NOT ESTABLISHED - OBSTACLES PENETRATE 20:1 SURFACE.

CONTINGENCY NOTE:
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CRP ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET.

ORDER 8260.3 CHAPTER 2 APPLIED TO 286 AAO 280454.00N/0973530.00W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.00
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	145.83
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	100
DISTANCE FROM	THLD	TO 1500FT POINT	4.80
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	145.83
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	100

THRESHOLD COORDINATES (IF STR-IN)	280236.93N/0973244.76W
ARP COORDINATES	280218.84N/0973233.00W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 14 DISTANCE 0.39 NM
FAF COORDINATES	280645.84N/0973555.21W
FIX NAME COORDINATES	

REMARKS

THLD DISPLACED 250FT, ACTUAL COORDINATES: 280238.98N/0973246.33W

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
ROBERT G HAMILTON (CODY J. GIVEN)	AJV-A431	03/11/2025	

