

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION	RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33	Bearings, headings, courses, 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 in feet RVR.
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TERMINAL ROUTES				MISSED APPROACH
FROM	TO	COURSE AND DISTANCE	ALTITUDE	
MARNE (IF/IAF)	EKIVY (FB)	127.64 / 3.70	2800	LPV: DA LNAV/VNAV: DA LNAV: RW13 CLIMB TO 3500 DIRECT NUMMO AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3500.
EKIVY	WUGHE (FB)	127.66 / 2.10	2500	
WUGHE (FAF)	RW13 (MAP) (FO)	127.68 / 5.63		
RW13 (MAP)	908 MSL	127.68		
908 MSL	NUMMO (FO)		3500	ADDITIONAL FLIGHT DATA: HOLD SE, RT, 307.80 INBOUND. CHART FAS OBST: 895 TOWER 294449N/0980432W 1039 AAO 294637N/0980645W DISTANCE TO THLD FROM 250 HAT: 0.63 NM. CHART VDP AT 1.41 MILES TO RW13* *LNAV ONLY. WAAS CHANNEL # 82435 REFERENCE PATH ID: W13A CHART CIRCLING ICON CHART: A-638 CHART IN PLANVIEW: RANDOLF AFB AUX (KSEQ) LTP HAE: 174.7 M

1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF)			
2. HOLD NW MARNE, RT, 127.64 INBOUND, 3100 FT. IN LIEU OF PT (IAF)			
3. FAC: 127.68 FAF: WUGHE		DIST FAF TO MAP: 5.63 THLD: 5.63	
4. MIN. ALT: MARNE 3100, EKIVY 2800, WUGHE 2500			
5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u>			
6. MIN GS INCPT: 2500 GS ALT AT: WUGHE 2500 OM: <u> </u> MM: <u> </u> IM: <u> </u>			
7. GS ANGLE: 3.00 TCH: 50.0 34:1 IS CLEAR			
8. MSA FROM: <u> </u>			
MAG VAR: 8E		EPOCH YEAR: 1975	

MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD @					
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	908	3/4	250	908	3/4	250	908	3/4	250	908	3/4	250			
LNAV/VNAV DA	1039	1 1/4	381	1039	1 1/4	381	1039	1 1/4	381	1039	1 1/4	381			
LNAV MDA	1160	1	502	1160	1	502	1160	1 3/8	502	1160	1 3/8	502			
CIRCLING	1160	1	502	1240	1	582	1280	1 3/4	622	1320	2	662			

NOTES:
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SAN MARCOS ALTIMETER SETTING AND INCREASE ALL DA 43 FT AND ALL MDA 60 FT, AND INCREASE LNAV/VNAV ALL CATS VISIBILITY 1/8 MILE, INCREASE LNAV AND CIRCLING CAT C,D VISIBILITY 1/4 MILE.
 (SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CITY AND STATE NEW BRAUNFELS, TX	ELEVATION: 658 TDZE: 658 AIRPORT NAME: NEW BRAUNFELS RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 13, AMDT 1 30 APRIL 2015	SUP: <u> </u> AMDT: <u> </u> DATED 02/14/2008
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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -6C (22F) OR ABOVE 54C (130F).

CHART NOTE: BARO VNAV AND VDP NA WHEN USING SAN MARCOS ALTIMETER SETTING

TAA

	FROM	TO	ALT
1.	038/30 CW 218/30 (NOPT)	038/10 CW 218/10	4100
2.	038/10 CW 218/10	MARNE (IF/IAF) (FB)	3100
3.	218/30 CW 038/30	MARNE (IF/IAF) (FO)	3100



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RNAV (GPS) RWY 13, AMDT 1
30 APRIL 2015

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**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBAZ
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	294254.3800N
LTP/FTP LONGITUDE	0980259.7800W
LTP/FTP ELLIPSOIDAL HEIGHT	+01747
FPAP LATITUDE	294150.4280N
FPAP LONGITUDE	0980148.3550W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0768
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

2B8D8CCF

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+02006
FPAP ORTHOMETRIC HEIGHT	+02006

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KBAZK4FR13	AMARNE	010MARNEK4EA0EE	AR	HF		12760040	+ 03100	18000			A JS	
SUSAP	KBAZK4FR13	R	010MARNEK4EA0E	I	IF			+ 03100	18000			A JS	
SUSAP	KBAZK4FR13	R	011EKIVYK4EA0E		051TF		12760037	+ 02800				A JS	
SUSAP	KBAZK4FR13	R	020WUGHEK4EA1E	F	051TF		12770021	+ 02500				A JS	
SUSAP	KBAZK4FR13	R	020WUGHEK4EA2WALPV			ALNAV/VNAV ALNAV						JS	
SUSAP	KBAZK4FR13	R	030RW13 K4PG0GY	M	031TF		12770056	00708		-300		A JS	
SUSAP	KBAZK4FR13	R	040		0 M CA		1277	+ 00908				A JS	
SUSAP	KBAZK4FR13	R	050NUMMOK4EA0EY		DF			+ 03500				A JS	
SUSAP	KBAZK4FR13	R	060NUMMOK4EA0EE	R	HM		30780040	+ 03500				A JS	

[illegible][illegible]

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U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	MARNE	MARNE	010	IAF	HF	R	FO		127.6 (135.6T)	004.0	AA 03100	
		MARNE	010	FACF	IF		FB				AA 03100	
		EKIVY	011		TF		FB	0.5	127.6 (135.6T)	003.7	AA 02800	
		WUGHE	020	FAF	TF		FB	0.5	127.7 (135.7T)	002.1	AA 02500	
		RW13	030	MAP	TF		FO	0.3	127.7 (135.7T)	005.6	AT 00708	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		127.7 (135.7T)		AA 00908	
	NUMMO	050		DF		FO				AA 03500	
	NUMMO	060		HM	R	FO		307.8 (315.8T)	004.0	AA 03500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	EKIVY	N294827.08	W0980911.98	N2948.451	W09809.200
	MARNE	N295106.22	W0981210.39	N2951.104	W09812.173
	NUMMO	N293434.04	W0975342.01	N2934.567	W09753.700
	WUGHE	N294656.57	W0980730.61	N2946.943	W09807.510
	RW13	N294254.38	W0980259.78	N2942.906	W09802.996

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW13	00658	50

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