

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.											
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW31 CLIMB TO 3100 DIRECT MARNE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 127.64 INBOUND. FAS OBST: 819 AAO 293921N/0975956W DISTANCE TO THLD FROM 250 HAT: 0.64 NM. CHART VDP AT 1.21 MILES TO RW31* *LNAV ONLY. WAAS CHANNEL # 86435 REFERENCE PATH ID: W31A CHART: A-638 CHART CIRCLING ICON CHART IN PLANVIEW: RANDOLF AFB AUX (KSEQ) LTP HAE: 170.1 M MAG VAR: 8E EPOCH YEAR: 1975											
NUMMO (IF/IAF)	FEKNI (FB)	307.80 / 4.39	2500												
FEKNI	TIVYO (FB)	307.77 / 2.03	2000												
TIVYO (FAF)	RW31 (MAP) (FO)	307.76 / 4.12	3100												
RW31 (MAP)	896 MSL	307.76													
896 MSL	MARNE (FO)														
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD SE NUMMO, RT, 307.80 INBOUND, 3500 FT. IN LIEU OF PT (IAF) 3. FAC: <u>307.76</u> FAF: <u>TIVYO</u> DIST FAF TO MAP: <u>4.12</u> THLD: <u>4.12</u> 4. MIN. ALT: <u>NUMMO 3500, FEKNI 2500, TIVYO 2000</u> 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: <u>2000</u> GS ALT AT: <u>TIVYO 2000</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>45.0</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u> </u>															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A											
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	896	3/4	250	896	3/4	250	896	3/4	250	896	3/4	250			
LNAV/VNAV DA	1068	1 3/8	422	1068	1 3/8	422	1068	1 3/8	422	1068	1 3/8	422			
LNAV MDA	1080	1	434	1080	1	434	1080	1 1/4	434	1080	1 1/4	434			
CIRCLING	1100	1	442	1240	1	582	1280	1 3/4	622	1320	2	662			
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. 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 LPV ALL CATS, LNAV/VNAV ALL CATS, AND (SEE FORM 8260-10) @ NA WHEN LOCAL WEATHER NOT AVAILABLE.															
CITY AND STATE		ELEVATION: 658 TDZE: 646		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
NEW BRAUNFELS, TX		AIRPORT NAME:		RNAV		RNAV (GPS) RWY 31, AMDT 1				AMDT: ORIG					
		NEW BRAUNFELS RGNL				30 APRIL 2015				DATED 02/14/2008					

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RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):

CIRCLING CATS C AND D VISIBILITY 1/4 MILE, AND LNAV CATS C AND D VISIBILITY 1/8 MILE.

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -5C (23F) OR ABOVE 54C (130F).

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

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

TAA

	FROM	TO	ALT
1.	218/30 CW 038/30 (NOPT)	NUMMO (IF/IAF) (FB)	3500
2.	038/30 CW 218/30	NUMMO (IF/IAF) (FO)	3500

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

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBAZ
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	0
REFERENCE PATH DATA SELECTOR	W31A
REFERENCE PATH IDENTIFIER (APPROACH ID)	294208.3000N
LTP/FTP LATITUDE	0980208.3200W
LTP/FTP LONGITUDE	+01701
LTP/FTP ELLIPSOIDAL HEIGHT	294312.2500N
FPAP LATITUDE	0980319.7500W
FPAP LONGITUDE	00045.0
THRESHOLD CROSSING HEIGHT (TCH)	F
TCH UNITS SELECTOR (METERS OR FEET USED)	03.00
GLIDEPATH ANGLE (GPA)	106.75
COURSE WIDTH AT THRESHOLD	0768
LENGTH OFFSET	40.0
HORIZONTAL ALERT LIMIT (HAL)	50.0
VERTICAL ALERT LIMIT (VAL)	

CRC REMAINDER

C45A23C5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+01961
FPAP ORTHOMETRIC HEIGHT	+01961

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RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

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ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KBAZK4FR31	ANUMMO	010NUMMOK4EA0EE	AR	HF		30780040	+	03500	18000		A	JS
SUSAP	KBAZK4FR31	R	010NUMMOK4EA0E	I	IF			+	03500	18000		A	JS
SUSAP	KBAZK4FR31	R	011FEKNIK4EA0E		051TF		30780044	+	02500			A	JS
SUSAP	KBAZK4FR31	R	020TIVYOK4EA1E	F	051TF		30780020	+	02000			A	JS
SUSAP	KBAZK4FR31	R	020TIVYOK4EA2WALPV			ALNAV/VNAV	ALNAV						JS
SUSAP	KBAZK4FR31	R	030RW31 K4PG0GY	M	031TF		30780041		00689	-300		A	JS
SUSAP	KBAZK4FR31	R	040		0 M	CA	3078	+	00896			A	JS
SUSAP	KBAZK4FR31	R	050MARNEK4EA0EY		DF			+	03100			A	JS
SUSAP	KBAZK4FR31	R	060MARNEK4EA0EE	R	HM		12760040	+	03100			A	JS

[illegible][illegible]

QUALITY
CHECKED

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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
	NUMMO	NUMMO	010	IAF	HF	R	FO		307.8 (315.8T)	004.0	AA 03500	
		NUMMO	010	FACF	IF		FB				AA 03500	
		FEKNI	011		TF		FB	0.5	307.8 (315.8T)	004.4	AA 02500	
		TIVYO	020	FAF	TF		FB	0.5	307.8 (315.8T)	002.0	AA 02000	
		RW31	030	MAP	TF		FO	0.3	307.8 (315.8T)	004.1	AT 00689	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		307.8 (315.8T)		AA 00896	
	MARNE	050		DF		FO				AA 03100	
	MARNE	060		HM	R	FO		127.6 (135.6T)	004.0	AA 03100	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	FEKNI	N293743.29	W0975712.71	N2937.722	W09757.212
	MARNE	N295106.22	W0981210.39	N2951.104	W09812.173
	NUMMO	N293434.04	W0975342.01	N2934.567	W09753.700
	TIVYO	N293910.89	W0975850.36	N2939.182	W09758.839
	RW31	N294208.30	W0980208.32	N2942.138	W09802.139

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW31	00644	45

QUALITY
4
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