

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV (RNP) - 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		MAP: DA									
ELKAY (IAF)		HUKRA (TF) (FB) (RNP 1.00)		317.51 / 5.80				4100		CLIMB TO 3100 ON TRACK 123.60 TO POYIG AND RIGHT TURN ON TRACK 166.57 TO EMBOW AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 340.00 INBOUND. CHART FAS OBST: 923 TOWER 293245N/0982945W CHART FAS OBST: 893 TREE 293253N/0982946W CHART A-635. DISTANCE TO THLD FROM 341 HATH: 0.89 NM. CHART AT OR ABOVE 6000 AT ELKAY #TCH 866.8 MSL (DO NOT CHART) CHART MAXIMUM 9000 AT MEDIN ROUTE TYPE: A, R ROUTE TYPE QUALIFIER 1: P ROUTE TYPE QUALIFIER 2: S CHART AT OR ABOVE 6000 AT CRISS									
HUKRA (IF)		CEXOD (TF) (FB) (RNP 1.00)		315.98 / 6.09				4100											
CEXOD		OSWOD (RF) (FB) (RNP 0.30)		(2.24 NM RADIUS CW UQOPY)/6.55				2200											
MEDIN (IAF)		REUBE (TF) (FB) (RNP 1.00)		104.97 / 7.96				4000											
REUBE (SEE FORM 8260-10)		HASDO (TF) (FB) (RNP 1.00)		123.43 / 7.06				4000											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT OSWOD 3. FAC: 123.57 FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: _____ 5. DIST TO THLD FROM OM: 4.19 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2200 GS ALT AT: OSWOD 2200 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 57.7# 34:1 IS NOT CLEAR 8. MSA FROM: RW12R 4200																MAG VAR: 8E		EPOCH YEAR: 1980	
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				
AUTHORIZATION REQUIRED																			
RNP 0.15 DA	1150	4000	341	1150	4000	341	1150	4000	341	1150	4000	341							
RNP 0.30 DA	1303	6000	494	1303	6000	494	1303	6000	494	1303	6000	494							
NOTES: CHART NOTE: GPS REQUIRED. CHART PLANVIEW NOTE AT ITLIW : MAX 180 KIAS. CHART PLANVIEW NOTE AT CEXOD : MAX 180 KIAS. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MEDIN ON V68 WEST BOUND. (SEE FORM 8260-10)																			
CITY AND STATE				ELEVATION: 809 THRE: 809				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
SAN ANTONIO, TX				AIRPORT NAME: SAN ANTONIO INTL				RNAV				RNAV (RNP) Z RWY 12R, ORIG-A 19 SEPTEMBER 2013				AMDT: ORIG			
														DATED 05/05/2011					

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (RNP) - STANDARD,
INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33

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TERMINAL ROUTES, (CONT.):			
FROM	TO	COURSE AND DISTANCE	ALTITUDE
HASDO (IF)	ALAMO LOM (TF) (FB) (RNP 1.00)	123.51 / 6.23	2700
ALAMO LOM	OSWOD (TF) (FB) (RNP 0.80)	123.56 / 1.68	2200
CRISS (IF/IAF)	ITLIW (TF) (FB) (RNP 1.00)	270.59 / 5.70	4500
ITLIW	ALAMO LOM (RF) (FB) (RNP 1.00)	(2.24 NM RADIUS CCW IXIWY)/5.75	2700
OSWOD (FAF)	RW12R (MAP) (TF) (FO)	123.57 / 4.19	
RW12R (MAP)	POYIG (TF) (FB) (RNP 1.00)	123.60 / 6.85	
POYIG	EMBOW (TF) (FO) (RNP 1.00)	166.57 / 13.74	3100

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CRISS ON V68 NORTHEAST BOUND.

CHART PLANVIEW NOTE ADJACENT TO ELKAY IAF: RF REQUIRED.

CHART PLANVIEW NOTE ADJACENT TO CRISS IAF: RF REQUIRED.

CHART PLANVIEW NOTE AT ELKAY: (RNP 0.30).

CHART PLANVIEW NOTE AT MEDIN: (RNP 0.80).

CHART PLANVIEW NOTE AT CRISS: (RNP 0.80).

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.

CHART PLANVIEW NOTE AT POYIG: MAX 210 KIAS UNTIL POYIG.

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -4C (24F) OR ABOVE 46C (116F).

CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.

CHART NOTE: FOR INOPERATIVE ALSF, INCREASE RNP 0.15 ALL CATS VISIBILITY TO RVR 5000 AND RNP 0.30 ALL CATS VISIBILITY TO 1 5/8.

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KSATK4FH12RZ	ACRIS	010CRIS	K4EA0E	A	IF							
SUSAP	KSATK4FH12RZ	ACRIS	020ITLIWK4EA0E		010TF								
SUSAP	KSATK4FH12RZ	ACRIS	030ALAMOK4EA0E		L010RF								
SUSAP	KSATK4FH12RZ	ACRIS	040OSWODK4EA0EE		081TF								
SUSAP	KSATK4FH12RZ	AELKAY	010ELKAYK4EA0E	A	IF								
SUSAP	KSATK4FH12RZ	AELKAY	020HUKRAK4EA0E	B	010TF								
SUSAP	KSATK4FH12RZ	AELKAY	030CEXODK4EA0E		010TF								
SUSAP	KSATK4FH12RZ	AELKAY	040OSWODK4EA0EE		R031RF								
SUSAP	KSATK4FH12RZ	AMEDIN	010MEDINK4EA0E	A	IF								
SUSAP	KSATK4FH12RZ	AMEDIN	020REUBEK4EA0E		010TF								
SUSAP	KSATK4FH12RZ	AMEDIN	030HASDOK4EA0E	B	010TF								
SUSAP	KSATK4FH12RZ	AMEDIN	040ALAMOK4EA0E		010TF								
SUSAP	KSATK4FH12RZ	AMEDIN	050OSWODK4EA0EE		081TF								
SUSAP	KSATK4FH12RZ	H	020OSWODK4EA1E	F	IF								
SUSAP	KSATK4FH12RZ	H	020OSWODK4EA2W										
SUSAP	KSATK4FH12RZ	H	030RW12RK4PG0GY	M	031TF								
SUSAP	KSATK4FH12RZ	H	040POYIGK4EA0E	M	010TF								
SUSAP	KSATK4FH12RZ	H	050EMBOWK4EA0EY		010TF								

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SUSAP KSATK4FH12RZ H

060EMBOWK4EA0EE R HM

34000040 + 03100

A FS

1 2 3 4 5 6 7 8 9 0 1 2 3
RUNWAY 1234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KSATK4GRW12R 0085021236 N29323389W098290795-0400 +0221400809000058150IIANT2

1 2 3 4 5 6 7 8 9 0 1 2 3
MSA 1234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KSATK4SRW12RK4PG 0 18018004225

M

CITY AND STATE
SAN ANTONIO, TX

ELEVATION: 809 THRE: 809
AIRPORT NAME:
SAN ANTONIO INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (RNP) Z RWY 12R, ORIG-A
19 SEPTEMBER 2013

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ARINC SUMMARY - 424-18 - RNAV (RNP)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CRISS	CRISS	010	IAF	IF		FB				AA 06000	
	CRISS	ITLIW	020		TF		FB	1.0			AA 04500	AB 180
	CRISS	ALAMO	030		RF	L	FB	1.0		005.8	AA 02700	
	CRISS	OSWOD	040		TF		FB	0.8			AA 02200	
	ELKAY	ELKAY	010	IAF	IF		FB				AA 06000	
	ELKAY	HUKRA	020		TF		FB	1.0			AA 04100	
	ELKAY	CEXOD	030		TF		FB	1.0			AA 04100	AB 180
	ELKAY	OSWOD	040		RF	R	FB	0.3		006.6	AA 02200	
	MEDIN	MEDIN	010	IAF	IF		FB				AB 09000	
	MEDIN	REUBE	020		TF		FB	1.0			AA 04000	
	MEDIN	HASDO	030		TF		FB	1.0			AA 04000	
	MEDIN	ALAMO	040		TF		FB	1.0			AA 02700	
	MEDIN	OSWOD	050		TF		FB	0.8			AA 02200	
		OSWOD	020	FAF	IF		FB				AA 02200	
		RW12R	030	MAP	TF		FO	0.3			AT 00867	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	POYIG	040		TF		FB	1.0				AB 210
	EMBOW	050		TF		FO	1.0			AA 03100	
	EMBOW	060		HM	R	FO		340.0 (348.0T)	004.0	AA 03100	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ALAMO	N293628.24	W0983410.12	N2936.471	W09834.169
	CEXOD	N293220.94	W0983630.25	N2932.349	W09836.504
	CRISS	N293931.25	W0982536.95	N2939.521	W09825.616
	ELKAY	N292237.44	W0982838.37	N2922.624	W09828.640
	EMBOW	N291417.49	W0982146.68	N2914.292	W09821.779
	HASDO	N294036.69	W0983931.18	N2940.612	W09839.520
	HUKRA	N292724.89	W0983224.04	N2927.415	W09832.401
	ITLIW	N294022.28	W0983204.89	N2940.371	W09832.082
	IXIWY	N293809.04	W0983227.80	N2938.151	W09832.463
	MEDIN	N294824.91	W0985401.09	N2948.415	W09854.018
	OSWOD	N293521.02	W0983243.39	N2935.350	W09832.723
	POYIG	N292800.25	W0982315.93	N2928.004	W09823.266
	REUBE	N294517.74	W0984535.67	N2945.296	W09845.595
	UQOPY	N293340.21	W0983425.65	N2933.670	W09834.428
	RW12R	N293233.89	W0982907.95	N2932.565	W09829.133

RUNWAY DATA	THRESHOLD
RWY	ELEVATION TCH

CITY AND STATE
SAN ANTONIO, TX

ELEVATION: **809** **THRE: 809**
 AIRPORT NAME:
SAN ANTONIO INTL

FACILITY
 IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (RNP) Z RWY 12R, ORIG-A
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RW12R 00809 58

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