

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</u> BOERNE STAGE FIELD	<u>AIRPORT ID</u> K5C1	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> SAN ANTONIO	<u>STATE</u> TX	
<u>AIRPORT ELEVATION</u> 1384	<u>TDZE</u> 1384	<u>SUPERSEDED</u> RNAV (GPS) RWY 17	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 04/02/2015	<u>MAG VAR</u> 5E	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL SUSPEND</u>		

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 079/30 CW 259/30	NOPT	FIDGU	IF/IAF	4100
2. 259/30 CW 079/30	PT	FIDGU	IF/IAF	4100

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>
FIDGU	IF/IAF	CUSUL		TF	FB	1.00	169.00	5.99	2700
CUSUL	FAF	EMEGY/2.30 NM TO RW17		TF	FB	0.30	169.01	1.71	
EMEGY/2.30 NM TO RW17		RW17	MAP	TF	FO	0.30	169.01	2.30	
RW17	MAP	1900 MSL		CA			169.01		1900
1900 MSL		MEDIN		DF	FO	1.00			4100

MISSED APPROACH

MAP:

LP: RW17
LNAV: RW17

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1900 THEN CLIMBING RIGHT TURN TO 4100 DIRECT MEDIN.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD N FIDGU, RT, 169.00 INBOUND, 4100 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 169.01FAF: CUSULDIST FAF TO MAP: 4.01DIST FAF TO THLD: 4.01

4. MIN ALT: FIDGU 4100, CUSUL 2700, EMEGY/2.30 NM TO RW17 2140

5. DIST TO THLD FROM OM:MM:IM:150 HAT:HAT:

6. MIN GP INCPT:GP ALT AT FAF :OM:MM:IM:

7. GP ANGLE:34:1: IS NOT CLEAR20:1: IS NOT CLEARTCH:

8. MSA FROM:

PBN EQUIPMENT REQUIREMENTS NOTES

RNP APCH

NOTES:

CHART NOTE: CIRCLING NA EAST OF RWY 17-35.
CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE KSAT ALTIMETER SETTING AND INCREASE ALL MDA 120 FT.
CHART NOTE: PROCEDURE NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

CUSUL TO RW17: 3.00/40.
WAAS CHANNEL #50528
REFERENCE PATH ID: W17A
CHART FAS OBST: 1586 ANTENNA 294529N/0984201W.
HOLD W, LT, 105.14 INBOUND (DO NOT CHART)
LTP HAE: 396.8 M

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
LP MDA	1840	1	456	1840	1	456		NA			NA				
LNAV MDA	1840	1	456	1840	1	456		NA			NA				
CIRCLING	1960	1	576	2000	1	616		NA			NA				



CHANGES - REASONS

- 1. CHANGED CHART FAS OBST FROM: 1489 TREE 294503N/0984233W TO: 1586 ANT 294529N/0984201W - NEW IPDS EVALUATION.
- 2. CHANGED AIRPORT ELEV FROM ELEV 1385 TO ELEV 1384 - NEW AIRNAV DATA.
- 3. CHANGED TDZE ELEV FROM ELEV 1385 TO ELEV 1384 - NEW AIRNAV DATA.
- 4. ADDED CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED - FDC NOTAM 8/5067 INCORPORATED.
- 5. CHANGED LP MDA/HAT ALL CATS FROM 1700/318 TO 1840/456 - FDC NOTAM 8/5067 INCORPORATED.
- 6. CHANGED LNAV MDA/HAT ALL CATS FROM 1740/358 TO 1840/456 - FDC NOTAM 8/5067 INCORPORATED.
- 7. CHANGED CIRCLING HAA CAT A FROM 575 TO 576 CAT B FROM 615 TO 616 - NEW AIRNAV DATA.
- 8. DELETED NOTE: DME/DME-0.03 NA, ADDED PBN REQUIREMENTS NOTE: RNP APCH - IAW 8260.19H PARA 8-6-8.
- 9. UPDATED 20:1 PENETRATIONS - FDC NOTAM 8/5067 INCORPORATED.
- 10. CHANGED FAS DATA: LTP/FTP LAT/LON FROM 294342.0500N/0984142.6200W TO 294342.0325N/0984142.6260W; LTP/FTP ELLIPSOIDAL HEIGHT FROM +03969 TO +03968; FPAP LAT/LON FROM 294213.2200N/0984131.9400W TO 294213.2025N/0984131.9420W; OFFSET LENGTH FROM 1592 TO 1416; CRC REMAINDER FROM 507ADDA1 TO 436E1170 - NEW AIRNAV DATA
- 11. UPDATED LP STEP DOWN FIX FINAL CONTROLLING OBSTACLE FROM 1449 TREE TO 1586 ANT - NEW IPDS EVALUATION.
- 12. UPDATED LNAV STEP DOWN FIX FINAL CONTROLLING OBSTACLE FROM 1489 TREE TO 1586 ANT - NEW IPDS EVALUATION.
- 13. UPDATED LP/LNAV HMAS FROM 1600/1640 TO 1740/1740 - IAW 8260.58, 3-6-1.
- 14. ADDED 34:1 PENETRATIONS - NEW IPDS EVALUATION.
- 15. CHANGED CHART LTP HAE FROM 396.9M TO 396.8M - NEW AIRNAV DATA.



<u>AIRPORT</u> BOERNE STAGE FIELD	<u>AIRPORT ID</u> K5C1	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> SAN ANTONIO	<u>STATE</u> TX
<u>COORDINATED WITH:</u>					
A4A <input type="checkbox"/> ALPA <input checked="" type="checkbox"/> AOPA <input checked="" type="checkbox"/> APA <input type="checkbox"/> HAI <input type="checkbox"/> NBAA <input checked="" type="checkbox"/> <u>OTHER:</u> ZHU, SAT APP CON, ST. AV. DIR., AMGR					
<u>FLIGHT CHECKED BY</u>			<u>OFFICE</u>	<u>DATE</u>	
<u>DEVELOPED BY</u>			<u>OFFICE</u>	<u>DATE</u>	
LONNIE EVERHART (NEAL BLOOMQUIST)			AJV-5400	03/01/2018	
<u>APPROVED BY</u>			<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
LONNIE EVERHART			AJV-5400		MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	K5C1
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	294342.0325N
LTP/FTP LONGITUDE	0984142.6260W
LTP/FTP ELLIPSOIDAL HEIGHT	+03968
FPAP LATITUDE	294213.2025N
FPAP LONGITUDE	0984131.9420W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1416
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	436E1170
ADDITIONAL PATH POINT RECORD INFORMATION	
ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+04211
FPAP ORTHOMETRIC HEIGHT	+04211



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

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
BOERNE STAGE FIELD	K5C1	RNAV (GPS) RWY 17	1B	SAN ANTONIO	TX	1384	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM

079/30 CW 259/30

TO

FIDGU

RNP

DISTANCE

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.TOWER (48-010562)	300814.00N/0983636.00W	3049	500	50	5D	1000					4100
2.TERRAIN	295318.00N/0991348.00W	2186 (2200)								AS1500	3700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:

STRAIGHT-IN AREA

FROM

259/30 CW 079/30

TO

FIDGU

RNP

DISTANCE

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.TOWER (48-005142)	293639.00N/0985334.00W	3049	500	125	5E	1000					4100
4.TERRAIN	295045.00N/0991048.00W	2097 (2100)								AS1500	3600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:



INTERMEDIATE

FROM

FIDGU (IF/IAF)

TO

CUSUL

RNP

DISTANCE

PAT

MAP

HAT

HMAS

5.99

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.AAO	295127.00N/0984448.00W	2044	50	20	2C	500					2600
5.TERRAIN	295127.00N/0984448.00W	1844 (1800)								AS900	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE



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<u>AIRPORT</u>	<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>
BOERNE STAGE FIELD	K5C1	RNAV (GPS) RWY 17	1B	SAN ANTONIO	TX	1384	RNAV

FINAL: LNAV STEPDOWN

FROM

EMEGY/2.30 NM TO RW17

TO

RW17

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>		<u>HMAS</u>						
	2.30		RW17	456								
<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>
7.ANTENNA (48-103185)	294528.67N/0984200.57W		1586	20	3	1A	250					1840

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:

HOLD-IN-LIEU OF PT

FROM

FIDGU

TO

P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>		<u>HMAS</u>						
		P-5										
<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>
9.TOWER (48-005697)	295027.00N/0984933.00W		3048	500	125	5E	1000				SA-855 AT907	4100
10.TERRAIN	300239.00N/0984739.00W		1982 (2000)								AS1500	3500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:




FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version



<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
<u>FINAL APPROACH COURSE AIMING</u>						
RUNWAY THRESHOLD	<div style="border: 1px solid black; padding: 2px; display: inline-block;">X</div>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE 629.38			
ON CENTERLINE	<div style="border: 1px solid black; padding: 2px; display: inline-block;">X</div>	FT FROM CENTERLINE				
<u>CRITICAL TEMPERATURES</u>						
<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>			
<u>CRITICAL TEMPERATURE REMARKS:</u>						
<u>"VISUAL PORTION OF FINAL" PENETRATIONS</u>						
Final Type	CIRCLING RWY 35:					
20:1						
1420 POLE (48-103195) 294304.24N/0984135.66W (23.88)			1405 TREE (48-103267) 294305.89N/0984140.47W (19.35)			
1429 TREE (48-102669) 294301.04N/0984134.67W (16.35)			1394 TRANSVERSE WAY (48-103241) 294307.80N/0984136.86W (16.32)			
1412 POLE (48-102671) 294303.34N/0984139.81W (13.27)			1409 POLE (48-027317) 294304.18N/0984135.68W (12.60)			
1431 TREE (48-102665) 294259.92N/0984134.17W (12.50)			1394 TRANSVERSE WAY (48-103239) 294306.75N/0984136.74W (10.99)			
1436 TREE (48-102663) 294258.44N/0984133.69W (9.84)			1402 TREE (48-103263) 294304.49N/0984140.26W (9.25)			
1394 TRANSVERSE WAY (48-103237) 294305.72N/0984136.61W (5.75)			1414 POLE (48-120006) 294301.28N/0984135.69W (3.03)			
1411 TREE (48-102661) 294301.12N/0984139.73W (1.08)			1399 TREE (48-101199) 294303.38N/0984140.71W (0.90)			
1394 TRANSVERSE WAY (48-103235) 294304.72N/0984136.49W (0.67)						



<u>AIRPORT</u>	<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>
BOERNE STAGE FIELD	K5C1	RNAV (GPS) RWY 17	1B	SAN ANTONIO	TX	1384	RNAV

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	3.68
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.82
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	174.01
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1568
DISTANCE FROM	THLD	TO 1500FT POINT	8.60
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	174.00
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1844

THRESHOLD COORDINATES (IF STR-IN) 294342.03N/0984142.63W

ARP COORDINATES 294323.59N/0984140.40W

RUNWAY APCH END AND DIST FURTHEST FROM MAP RUNWAY 35 DISTANCE 0.41 NM

FAF COORDINATES 294742.16N/0984211.50W

FIX NAME COORDINATES IF/IAF FIDGU: 295340.23N/0984254.65W

REMARKS
 NO ADDITIONAL AIRSPACE REQUIRED.
 THLD DISPLACED 629.38FT, ACTUAL COORDINATES: 294348.23N/0984143.37W.



<u>AIRPORT</u>	<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>
BOERNE STAGE FIELD	K5C1	RNAV (GPS) RWY 17	1B	SAN ANTONIO	TX	1384	RNAV

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
LONNIE EVERHART (NEAL BLOOMQUIST)	AJV-5400	03/01/2018	AERONAUTICAL INFORMATION SPECIALIST

