

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) - STANDARD
INSTRUMENT APPROACH PROCEDURE
FAR 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												
REDDA	HINSI (FB)	265.94 / 11.80	3000	LPV: DA LNAV/VNAV: DA LNAV: RW33 CLIMB TO 3000 DIRECT FIXUL AND VIA TRACK 279.51 TO AGJ VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 190.00 INBOUND. CHART FAS OBST: 1194 ANT 310154N/0974922W CHART R-6302A, R-6302B, R-6302C, GRAY MOA. DISTANCE TO THLD FROM 200 HAT: 0.54 NM. CHART VDP AT 1.48 MILES TO RW33* LNAV ONLY. WAAS CHANNEL # 82399 REFERENCE PATH ID: W33A CHART: ASR/PAR											
KALLA	ROYOB (FB)	051.13 / 15.02	4200												
ROYOB (IAF)	TIXFO (FB)	060.34 / 5.00	3000												
HINSI (IAF)	TIXFO (FB)	240.44 / 5.00	3000												
TIXFO (IF)	RUBUF (FB)	330.39 / 6.11	2600												
1. PT NA SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT TIXFO 3. FAC: 330.37 FAF: RUBUF DIST FAF TO MAP: 4.88 THLD: 4.88 4. MIN. ALT: TIXFO 3000, RUBUF 2600 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2600 GS ALT AT: RUBUF OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 50.1 34:1 IS CLEAR 8. MSA FROM: RW33 4200				MAG VAR: 7E EPOCH YEAR: 1990											
MINIMUMS															
TAKEOFF:	STANDARD	X	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	1195	1/2	200	1195	1/2	200	1195	1/2	200	1195	1/2	200	1195	1/2	200
LNAV/VNAV DA	1552	1 1/2	557	1552	1 1/2	557	1552	1 1/2	557	1552	1 1/2	557	1552	1 1/2	557
LNAV MDA	1460	1/2	465	1460	1/2	465	1460	3/4	465	1460	1	465	1460	1 1/4	465
CIRCLING	1540	1	525	1540	1	525	1560	1 1/2	545	1580	2	565	1740	2 1/2	725
NOTES: CHART NOTE: CIRCLING NA W OF RWY 15-33. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 46C (114F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. SEE 8260-10															
CITY AND STATE		ELEVATION: 1015 TDZE: 995		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:		SUP:							
FORT HOOD/KILLEEN, TX		AIRPORT NAME: ROBERT GRAY AAF				RNAV (GPS) RWY 33, AMDT 1, 12/17/2009		AMDT: ORIG							
						17 DEC 2009		DATED 08/02/2007							

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NOTES CONT.

CHART NOTE: FOR INOPERATIVE MALRS, INCREASE LPV CAT E VISIBILITY 1/4 MILE AND LNAV/VNAV AND LNAV CAT E VISIBILITY 1/2 MILE.

QUALITY
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CHECKED

CITY AND STATE

FORT HOOD/KILLEEN, TX

ELEVATION: 1015

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ROBERT GRAY AAF

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KGRK
RUNWAY RW33
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W33A
LTP/FTP LATITUDE 310318.1700N
LTP/FTP LONGITUDE 0974922.8650W
LTP/FTP ELLIPSOIDAL HEIGHT +02701
FPAP LATITUDE 310447.9500N
FPAP LONGITUDE 0975006.4000W
THRESHOLD CROSSING HEIGHT (TCH) 00050.1
TCH UNITS SELECTOR (METERS OR FEET USED) F
GLIDEPATH ANGLE (GPA) 03.00
COURSE WIDTH AT THRESHOLD 106.75
LENGTH OFFSET 0008
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 35.0

CRC REMAINDER

E1A735EE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K4
LTP ORTHOMETRIC HEIGHT +02967
FPAP ORTHOMETRIC HEIGHT +02967

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[illegible][illegible][illegible][illegible]

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CITY AND STATE FORT HOOD/KILLEEN, TX	ELEVATION: 1015 TDZE: 995 AIRPORT NAME: ROBERT GRAY AAF	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 33, AMDT 1, 12/17/2009 17 DEC 2009	SUP:	
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ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE
	KALLA	KALLA	010		IF		FB				
	KALLA	ROYOB	020	IAF	TF		FB	2.0	051.1(058T)	015.0	04200
	KALLA	TIXFO	030	IF	TF		FB	1.0	060.3(067T)	005.0	03000
	REDDA	REDDA	010		IF		FB				
	REDDA	HINSI	020	IAF	TF		FB	2.0	265.9(273T)	011.8	03000
	REDDA	TIXFO	030	IF	TF		FB	1.0	240.4(247T)	005.0	03000
		TIXFO	010	FACF	IF		FB				03000
		RUBUF	020	FAF	TF		FB	0.5	330.4(337T)	006.1	02600
		RW33	030	MAP	TF		FO	0.3	330.4(337T)	004.9	01024

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE
		040		CA		FB	1.0	330.4(337T)		01195
	FIXUL	050		DF		FB	1.0			
	AGJ	060		TF		FO	1.0	279.5(287T)		03000
	AGJ	070		HM	R	FO	2.0	190.0(197T)	004.0	03000

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AGJ	N311107.81	W0980830.71	N3111.130	W09808.512
	FIXUL	N310641.60	W0975101.54	N3106.693	W09751.026
	HINSI	N305503.16	W0973905.57	N3055.053	W09739.093
	KALLA	N304315.88	W0980438.46	N3043.265	W09804.641
	REDDA	N305427.53	W0972523.49	N3054.459	W09725.392
	ROYOB	N305111.96	W0974949.25	N3051.199	W09749.821
	RUBUF	N305847.11	W0974711.60	N3058.785	W09747.193
	TIXFO	N305307.67	W0974427.52	N3053.128	W09744.459
	RW33	N310318.17	W0974922.87	N3103.303	W09749.381

RUNWAY DATA	RWY	THRESHOLD	TCH
		ELEVATION	
	RW33	00974	50

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