

<b>RNAV (GPS) - STANDARD INSTRUMENT APPROACH PROCEDURE FAR PART 97.33</b>				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.											
<b>US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION</b>															
<b>TERMINAL ROUTES</b>				<b>MISSED APPROACH</b>											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW15  CLIMB TO 3000 DIRECT RUBUF AND RIGHT TURN VIA TRACK 240.34 TO HETGA AND RIGHT TURN VIA TRACK 336.04 TO AGJ VORTAC AND HOLD.  ADDITIONAL FLIGHT DATA: HOLD N, RT, 190.00 INBOUND. CHART FAS OBST: 1238 ASR 310503N/0975059W FAS OBST: 1281 AAO 310852N/0975309W CHART R-6302 A,B,C,D, GRAY MOA, HOOD MOA. DISTANCE TO THLD FROM 256 HAT: 0.64 NM. CHART VDP AT 1.42 MILES TO RW15* *LNAV ONLY. WAAS CHANNEL # 78099 REFERENCE PATH ID: W15A CHART: PAR/ASR											
AGJ VORTAC (IAF)	OKEST (FB)	059.97 / 12.13	3000												
TENAT (IAF)	OKEST (FB)	125.11 / 11.23	3000												
OKEST (IF)	NABCI (FB)	150.30 / 6.01	3000												
1. PT <u>NA</u> SIDE OF COURSE <u>OUTBOUND</u> <u>      </u> FT WITHIN <u>      </u> MILES OF <u>      </u> (IAF) 2. PROFILE STARTS AT OKEST 3. FAC: <u>150.33</u> FAF: <u>NABCI</u> DIST FAF TO MAP: <u>5.97</u> THLD: <u>5.97</u> 4. MIN. ALT: <u>OKEST 3000, NABCI 3000</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>3000</u> GS ALT AT: <u>NABCI</u> OM: <u>      </u> MM: <u>      </u> IM: <u>      </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>53.4</u> 34:1 IS CLEAR 8. MSA FROM: <u>RW15 4200</u>				MAG VAR: 7E EPOCH YEAR: 1990											
<b>MINIMUMS</b>															
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	1271	2400	256	1271	2400	256	1271	2400	256	1271	2400	256	1271	2400	256
LNAV/VNAV DA	1547	6000	532	1547	6000	532	1547	6000	532	1547	6000	532	1547	1 1/2	532
LNAV MDA	1540	2400	525	1540	2400	525	1540	5000	525	1540	6000	525	1540	6000	525
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 47C (116F). CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS, AND LNAV CATS A/B. CHART NOTE: DME/DME RNP-0.3 NA. SEE 8260-10															
CITY AND STATE FORT HOOD/KILLEEN, TX				ELEVATION: 1015 TDZE: 1015 AIRPORT NAME: ROBERT GRAY AAF		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 1, 12/17/2009 17 DEC 2009				SUP: AMDT: ORIG DATED 08/02/2007			

**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.

**NOTES CONT.****CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT AGJ VORTAC VIA V358 SOUTHWEST BOUND.****CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.****CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV CAT E VISIBILITY 1/2 MILE AND LNAV CAT E VISIBILITY 1/2 MILE.**

QUALITY  
6  
CHECKED

CITY AND STATE

FORT HOOD/KILLEEN, TX

ELEVATION: 1015 TDZE: 1015

AIRPORT NAME:

ROBERT GRAY AAF

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 15, AMDT 1, 12/17/2009

17 DEC 2009

SUP:

AMDT: ORIG

DATED: 08/02/2007

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - 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.

FAS DATA BLOCK INFORMATION

DATA FIELD

DATA

OPERATION TYPE 0  
SBAS SERVICE PROVIDER IDENTIFIER 0  
AIRPORT IDENTIFIER KGRK  
RUNWAY RW15  
APPROACH PERFORMANCE DESIGNATOR 0  
ROUTE INDICATOR 0  
REFERENCE PATH DATA SELECTOR 0  
REFERENCE PATH IDENTIFIER (APPROACH ID) W15A  
LTP/FTP LATITUDE 310447.7210N  
LTP/FTP LONGITUDE 0975006.2815W  
LTP/FTP ELLIPSOIDAL HEIGHT +02828  
FPAP LATITUDE 310315.8800N  
FPAP LONGITUDE 0974921.7700W  
THRESHOLD CROSSING HEIGHT (TCH) 00053.4  
TCH UNITS SELECTOR (METERS OR FEET USED) F  
GLIDEPATH ANGLE (GPA) 03.00  
COURSE WIDTH AT THRESHOLD 106.75  
LENGTH OFFSET 0016  
HORIZONTAL ALERT LIMIT (HAL) 40.0  
VERTICAL ALERT LIMIT (VAL) 50.0

CRC REMAINDER

FC940032

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K4  
LTP ORTHOMETRIC HEIGHT +03094  
FPAP ORTHOMETRIC HEIGHT +03094

QUALITY  
6  
CHECKED

CITY AND STATE  
FORT HOOD/KILLEEN, TX

ELEVATION: 1015 TDZE: 1015  
AIRPORT NAME:  
ROBERT GRAY AAF

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 15, AMDT 1, 12/17/2009  
17 DEC 2009

SUP:  
AMDT: ORIG  
DATED: 08/02/2007

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.

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KGRKK4FR15	AAGJ	010AGJ	K4D 0V	A	IF					18000		A JS	
SUSAP KGRKK4FR15	AAGJ	0200KESTK4EA0EE	B	010TF		06000121	+	03000				A JS	
SUSAP KGRKK4FR15	ATENAT	010TENATK4EA0E	A	IF						18000		A JS	
SUSAP KGRKK4FR15	ATENAT	0200KESTK4EA0EE	B	010TF		12510112	+	03000				A JS	
SUSAP KGRKK4FR15	R	0100KESTK4EA0E	I	IF			+	03000		18000		A JS	
SUSAP KGRKK4FR15	R	020NABCIK4EA1E	F	051TF		15030060	+	03000			RW15	K4PGA	JS
SUSAP KGRKK4FR15	R	020NABCIK4EA2WALPV			ALNAV/VNAV	ALNAV						JS	
SUSAP KGRKK4FR15	R	030RW15	K4PG0GY	M	031TF	15030060		01069		-300		A JS	
SUSAP KGRKK4FR15	R	040		M	010CA	1503	+	01271				A JS	
SUSAP KGRKK4FR15	R	050RUBUFK4EA0E		010DF								A JS	
SUSAP KGRKK4FR15	R	060HETGAK4EA0E		R010TFY		2403						A JS	
SUSAP KGRKK4FR15	R	070AGJ	K4D 0VY	R010TFY		3360	+	03000				A JS	
SUSAP KGRKK4FR15	R	080AGJ	K4D 0VE	R020HM		19000040	+	03000				A JS	

QUALITY  
6  
CHECKED

CITY AND STATE FORT HOOD/KILLEEN, TX	ELEVATION: 1015    TDZE: 1015 AIRPORT NAME:  ROBERT GRAY AAF	FACILITY IDENTIFIER:  RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 1, 12/17/2009  17 DEC 2009	SUP:	
				AMDT:	ORIG
				DATED:	08/02/2007

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.

SUSAP KGRKK4GRW15 0100001504 N31044772W097500628-0400 +0282801015000053200I

SUSAP KGRKK4PR15	RW15 001 0000W15A0N3104477210W09750062815+028280300N3103158800W09749217700106750016000534F400500FC940032
SUSAP KGRKK4PR15	RW15 002E +03094+03094LPV 78099

SUSAP KGRKK4SRW15 K4PG 0 18018004225 M

QUALITY  
b  
CHECKED

SUP:	
AMDT:	ORIG
DATED:	08/02/2007

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICE - 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.

ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
	AGJ	AGJ	010	IAF	IF		FB				
	AGJ	OKEST	020	IF	TF		FB	1.0	060.0 (067T)	012.1	03000
	TENAT	TENAT	010	IAF	IF		FB				
	TENAT	OKEST	020	IF	TF		FB	1.0	125.1 (132T)	011.2	03000
		OKEST	010	FACF	IF		FB				03000
		NABCI	020	FAF	TF		FB	0.5	150.3 (157T)	006.0	03000
		RW15	030	MAP	TF		FO	0.3	150.3 (157T)	006.0	01069

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
		040		CA		FB	1.0	150.3 (157T)		01271
	RUBUF	050		DF		FB	1.0			
	HETGA	060		TF	R	FB	1.0	240.3 (247T)		
	AGJ	070		TF	R	FO	1.0	336.0 (343T)		03000
	AGJ	080		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
	HETGA	N305321.92	W0980212.47	N3053.365	W09802.208
	NABCI	N311018.78	W0975246.96	N3110.313	W09752.783
	OKEST	N311552.45	W0975529.25	N3115.874	W09755.488
	RUBUF	N305847.11	W0974711.60	N3058.785	W09747.193
	TENAT	N312325.54	W0980512.41	N3123.426	W09805.207
	RW15	N310447.72	W0975006.28	N3104.795	W09750.105

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW15	01015	53

QUALITY  
6  
CHECKED

CITY AND STATE  
FORT HOOD/KILLEEN, TX

ELEVATION: 1015 TDZE: 1015  
 AIRPORT NAME:  
 ROBERT GRAY AAF

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
 RNAV (GPS) RWY 15, AMDT 1, 12/17/2009  
 17 DEC 2009

SUP:  
 AMDT: ORIG  
 DATED: 08/02/2007