

<b>RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR 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>TERMINAL ROUTES</b>										<b>MISSED APPROACH</b>					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW13R  CLIMB TO 2200 DIRECT LESLO AND ON TRACK 133.85 TO VUH VOR/DME.  ADDITIONAL FLIGHT DATA: CHART FAS OBST: 231 TOWER 294117N/0952018W DISTANCE TO THLD FROM 284 HAT: 0.74 NM. CHART VDP AT 1.39 NM TO RW13R* *LNAV ONLY. WAAS CHANNEL # 70310 REFERENCE PATH ID: W13A CHART CIRCLING ICON. LTP HAE: -13.2 M					
JABBS (IF)		ROYCE (FB)		130.86 / 7.66				2000							
ROYCE (FAF)		RW13R (MAP) (FO)		130.91 / 5.88											
RW13R (MAP)		330 MSL		130.91											
330 MSL		LESLO (FB)						2200							
LESLO		VUH VOR/DME (FO)		133.85 / 24.1											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT JABBS 3. FAC: 130.91 FAF: ROYCE DIST FAF TO MAP: 5.88 THLD: 5.88 4. MIN. ALT: JABBS 2000, ROYCE 2000 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2000 GS ALT AT: ROYCE 2000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 49.0 34:1 IS NOT CLEAR 8. MSA FROM: RW13R 3100										MAG VAR: 3E		EPOCH YEAR: 2015			
<b>MINIMUMS</b>															
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
LPV DA	330	4000	284	330	4000	284	330	4000	284	330	4000	284	330	4000	284
LNAV/VNAV DA	475	5000	429	475	5000	429	475	5000	429	475	5000	429	475	5000	429
LNAV MDA	540	4000	494	540	4000	494	540	5000	494	540	5000	494	540	6000	494
CIRCLING	540	1	494	540	1	494	740	2 1/4	694	740	2 1/4	694	860	3	814
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 15C (5F) OR ABOVE 49C (120F). @ CAT C, D 800-2 1/4, CAT E 900-3 CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: RADAR REQUIRED. FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO RVR 5000; INCREASE LNAV/VNAV CATS A/B/C/D (CONTINUED ON PAGE 2)															
CITY AND STATE HOUSTON, TX		ELEVATION: 46 TDZE: 46 AIRPORT NAME: WILLIAM P HOBBY		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 13R, AMDT 1C 10 NOVEMBER 2016				SUP: RNAV (GPS) RWY 13R AMDT: 1B DATED 05/29/2014		<div style="color: green; text-align: center;">             QUALITY              4              12R              1B              12R              1B           </div>			

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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NOTES, (CONT.):

VISIBILITY TO 1 3/8 SM, CAT E TO 1 1/2 SM; AND INCREASE LNAV CATS A/B VISIBILITY TO RVR 5500,  
CATS C/D TO 1 3/8 SM, CAT E TO 1 3/4 SM.

CHART NOTE: RWY 13R HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CITY AND STATE

HOUSTON, TX

ELEVATION: 46

TDZE: 46

AIRPORT NAME:

WILLIAM P HOBBY

FACILITY  
IDENTIFIER:  
**RNAV**

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

**RNAV (GPS) RWY 13R, AMDT 1C**

10 NOVEMBER 2016

SUP: **RNAV (GPS) RWY**

AMDT: **12R**

DATED: **05/29/2014**

QUALITY  
CHECKED

**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	KHOU
RUNWAY	RW13R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	293856.2655N
LTP/FTP LONGITUDE	0951659.4135W
LTP/FTP ELLIPSOIDAL HEIGHT	-00132
FPAP LATITUDE	293754.2600N
FPAP LONGITUDE	0951545.8000W
THRESHOLD CROSSING HEIGHT (TCH)	00049.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0752
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 49313A47

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00140
FPAP ORTHOMETRIC HEIGHT	+00140

CITY AND STATE  
HOUSTON, TX

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AIRPORT NAME:  
WILLIAM P HOBBY

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 13R, AMDT 1C  
10 NOVEMBER 2016

SUP: RNAV (GPS) RWY 13R  
AMDT: 1B  
DATED: 05/29/2014

QUALITY  
CHECKED

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

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ARINC SUMMARY - KHOU

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
	010	JABBS	IF	FB								AA 02000		E I
	020	ROYCE	TF	FB	1.0	130.9				RW13R		AA 02000		E F
	030	RW13R	TF	FO	0.3	130.9		3.00				AT 00095		GY M
	040		CA	FB		130.9						AA 00330		M
	050	LESLO	DF	FB										E
	060	VUH	TF	FB	1.0	133.9								V

POINTS

POINT NAME	LATITUDE	LONGITUDE
VUH	N291609.60	W0945203.81
JABBS	N294821.19	W0952811.92
LESLO	N293348.73	W0951054.69
ROYCE	N294301.63	W0952151.11

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW13R	N293856.27	W0951659.41	00046	49.0

CITY AND STATE  
**HOUSTON, TX**

ELEVATION: **46**      **TDZE: 46**  
 AIRPORT NAME:  
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FACILITY  
 IDENTIFIER:  
**RNAV**

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
**RNAV (GPS) RWY 13R, AMDT 1C**  
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