

**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.

<b><u>AIRPORT</u></b> WEST HOUSTON	<b><u>AIRPORT ID</u></b> KIWS	<b><u>PROCEDURE NAME</u></b> RNAV (GPS) RWY 15	<b><u>ORIGINAL/AMENDMENT</u></b> 1C	<b><u>CITY</u></b> HOUSTON	<b><u>STATE</u></b> TX
<b><u>AIRPORT ELEVATION</u></b> 111	<b><u>TDZE</u></b> 111	<b><u>SUPERSEDED</u></b> RNAV (GPS) RWY 15	<b><u>ORIGINAL/AMENDMENT</u></b> 1B	<b><u>DATED</u></b> 08/20/2015	<b><u>MAG VAR</u></b> 5E
<b><u>FACILITY</u></b> RNAV	<b><u>COORDINATES OF FACILITIES</u></b>	<b><u>ACTUAL EFFECTIVE DATE</u></b> 13 SEPTEMBER 2018	<b><u>REQUIRED EFFECTIVE DATE</u></b> ROUTINE	<b><u>CANCEL SUSPEND</u></b>	<b><u>EPOCH YEAR</u></b> 1995

**TERMINAL ROUTES**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>LEG TYPE</u></b>	<b><u>FO/FB</u></b>	<b><u>RNP</u></b>	<b><u>COURSE</u></b>	<b><u>DISTANCE</u></b>	<b><u>ALTITUDE</u></b>
LESKR	IAF	JOSEY		TF	FB	1.00	069.57	10.00	2000
JOSEY	IF	ORENT		TF	FB	1.00	149.63	7.20	1700
ORENT	FAF	ZASGI/2.40 NM TO RW15		TF	FB	0.30	149.66	2.45	
ZASGI/2.40 NM TO RW15		RW15	MAP	TF	FO	0.30	149.66	2.40	
RW15	MAP	600 MSL		CA			149.66		600
600 MSL		SHYNR		DF	FO	1.00			2000

**MISSED APPROACH**

**MAP:**

LP: RW15  
 LNAV: RW15

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 2000 DIRECT SHYNR AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. PROFILE STARTS AT JOSEY
3. FAC:

149.66

FAF: ORENT

DIST FAF TO MAP: 4.85

DIST FAF TO THLD: 4.85
4. MIN ALT: JOSEY 2000, ORENT 1700, ZASGI/2.40 NM TO RW15 900
5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

GS ANT:
6. MIN GP INCPT:

GP ALT AT FAF :

OM:

MM:

IM:
7. GP ANGLE:

34:1: IS NOT CLEAR

20:1: IS NOT CLEAR

TCH:
8. MSA FROM: RW15 3100

PBN REQUIREMENTS NOTES:

RNP APCH

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.  
CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.  
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: USE GEORGE BUSH INTERCONTINENTAL/HOUSTON ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART FAS OBST: 281 WATER TWR 295103N/0954205W, 230 TWR 295107N/0954119W.  
ORENT TO RW15: 3.00/45.  
WAAS CHANNEL #40429  
REFERENCE PATH ID: W15A  
HOLD SE, LT, 300.00 INBOUND  
LTP HAE: 6.1 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☒

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	540	1	429	540	1	429	540	1 1/4	429		NA				
LNAV MDA	580	1	469	580	1	469	580	1 3/8	469		NA				
CIRCLING	600	1	489	600	1	489	640	1 1/2	529		NA				



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>
WEST HOUSTON	KIWS	RNAV (GPS) RWY 15	1C	HOUSTON	TX

# **CHANGES - REASONS**

1. RAISED LP MDA/HAT FROM 480/369 TO 540/429 - INCORPORATING T-NOTAM 8/8467.
2. RAISED LNAV MDA/HAT FROM 540/429 TO 580/469 - INCORPORATING T-NOTAM 8/8467 AND ROUNDING REMOTE ALTIMETER ADJUSTMENT AT THE END.
3. RAISED LP VIS CAT C FROM 1 SM TO 1 1/4 SM - INCORPORATING T-NOTAM 8/8467.
4. RAISED LNAV VIS CAT C FROM 1 1/4 SM TO 1 3/8 SM - INCORPORATING T-NOTAM 8/8467.
5. CHANGED CHART NOTE FROM OBTAIN LOCAL ALTIMETER SETTING ON CTAF; WHEN NOT RECEIVED, USE GEORGE BUSH INTERCONTINENTAL/HOUSTON ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET, INCREASE LP CAT C VISIBILITY 1/4 MILE AND LNAV CAT C VISIBILITY 1/8 MILE TO USE GEORGE BUSH INTERCONTINENTAL/HOUSTON ALTIMETER SETTING - INCORPORATING T-NOTAM 8/8467.
6. DELETED CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 33 NA AT NIGHT - INCORPORATING T-NOTAM 8/8467.
7. DELETED CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 15 PROCEDURE NA AT NIGHT - INCORPORATING T-NOTAM 8/8467.
8. ADDED CHART NOTE: PROCEDURE NA AT NIGHT - INCORPORATING T-NOTAM 8/8467.
9. DELETED CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA - OLD NOTATION.
10. ADDED CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED - 20:1 PENETRATIONS IDENTIFIED.
11. CHANGED ALL REFERENCE TO YOKUV (IAF) TO LESKR (IAF) - INCORPORATING P-NOTAM 5/4496.
12. CHANGED THRE 111 TO TDZE 111 - INCORPORATING P-NOTAM 5/6448.
13. RAISED CIRCLING CAT A MDA FROM 540 FT TO 600 FT - NEW OBSTACLE 235 POLE 294956.40N/0953934.56W (1A), REMOTE ALTIMETER NOW PRIMARY.
14. RAISED CIRCLING CAT B MDA FROM 580 FT TO 600 FT - KIAH NOW PRIMARY ALTIMETER.
15. RAISED CIRCLING CAT C MDA FROM 580 FT TO 640 FT - KIAH NOW PRIMARY ALTIMETER.
16. CHANGED LP/LNAV AAO5 FROM 400 FT 295328.41N/0954222.22W (2C) TO 338 FT 495248.00N/0954230.00W (2C) - UPDATED TERRAIN AND CURRENT RNAV TRAP CRITERIA.
17. DELETED DME/DME RNP -0.3 NA - PER 8260.19H.
18. ADDED PBN NAVSPEC REQUIREMENT NOTE: RNP APCH - PER 8260.19H.
19. CHANGED CRC REMAINDER FROM 7EBE14AD TO DF6D89D6 - FPAP LAT/LONG UPDATED.



COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ST. AV DIR, ARPT MGR, HOU APP CON

FLIGHT CHECKED BY

ZACK SMYER  
*Digitally signed by*  
**ROBERT G HAMILTON**  
Jul 13, 2018

OFFICE

FICO

DATE

7/12/18

DEVELOPED BY

LONNIE EVERHART (ANTHONY CAPPABIANCO)  
*Digitally signed by*  
**ROBERT G HAMILTON**  
Jul 13, 2018

OFFICE

AJV-5400

DATE

05/01/2018

APPROVED BY

LONNIE EVERHART  
*Digitally signed by*  
**ROBERT G HAMILTON**  
Jul 13, 2018

OFFICE

AJV-5400

DATE

TITLE

MANAGER



