

**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 ID</u> KIAH	<u>PROCEDURE NAME</u> RNAV (GPS) Z RWY 27	<u>ORIGINAL/AMENDMENT</u> 5B	<u>CITY</u> HOUSTON	<u>STATE</u> TX		
<u>AIRPORT ELEVATION</u> 96	<u>TDZE</u> 86	<u>SUPERSEDED</u> RNAV (GPS) Z RWY 27	<u>ORIGINAL/AMENDMENT</u> 5A	<u>DATED</u> 08/17/2017	<u>MAG VAR</u> 3E	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 22 APRIL 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

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>
RDFSH	IAF	GEYGR		TF	FB	1.00	312.89	7.00	4000
GEYGR		SYYKO		TF	FB	1.00	313.47	4.00	3000
SYYKO		TRANN		TF	FB	1.00	287.02	3.00	3000
CLSIK	IAF	GRUNG		TF	FB	1.00	245.63	4.11	4000
GRUNG		SILLS		TF	FB	1.00	267.24	6.21	4000
SILLS		TRANN		TF	FB	1.00	267.25	5.04	3000
TRANN		DENTO		TF	FB	1.00	267.12	4.23	2000
DENTO	IF	FESTA		TF	FB	1.00	267.12	7.22	2000
FESTA		REDOC		TF	FB	1.00	267.05	4.44	1500
REDOC	FAF	RW27	MAP	TF	FO	0.30	267.01	4.27	
RW27	MAP	560 MSL		CA			267.01		560
560 MSL		TICOY		DF	FO	1.00			3100

QUALITY
42
CHECKED

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW27

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 560 THEN CLIMBING LEFT TURN TO 3100 DIRECT TICOY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. PROFILE STARTS AT TRANN					
3. FAC:	267.01	FAF: REDOC	DIST FAF TO MAP: 4.27		DIST FAF TO THLD: 4.27
4. MIN ALT:	TRANN 3000, DENTO 2000, FESTA 2000, REDOC 1500				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT: 0.46	GS ANT:
6. MIN GP INCPT:	1500	GP ALT AT FAF :	REDOC 1500	OM:	MM:
7. GP ANGLE:	3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 55.0	IM:
8. MSA FROM:	RW27 3100				

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -2°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV CAT E VISIBILITY TO RVR 6000, AND LNAV CATS C, D AND E VISIBILITY TO 1 3/8 SM.
CHART SPEED ICON IN PLANVIEW AT RDFSH: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT CLSIK: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT SILLS: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 6000 AT RDFSH.
CHART MANDATORY 4000 AT CLSIK.
HOLD SW, RT, 031.22 INBOUND.
FAS OBST: 294 AAO 295920N/0951408W.
CHART 573 TOWER 300020N/0951259W.
CHART VDP AT 1.27 NM TO RW27*
*LNAV ONLY.
WAAS CHANNEL # 69626
REFERENCE PATH ID: W27A
CHART MANDATORY 4000 AT GEYGR.
CHART MANDATORY 3000 AT SYYKO.
CHART MANDATORY 4000 AT SILLS.
LTP HAE: -1.7 M



MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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
LPV DA	286	1800	200	286	1800	200	286	1800	200	286	1800	200	286	1800	200
LNAV/VNAV DA	476	3500	390	476	3500	390	476	3500	390	476	3500	390	476	3500	390
LNAV MDA	560	2400	474	560	2400	474	560	5000	474	560	5000	474	560	5000	474

CHANGES - REASONS

1. INCORPORATED P-NOTAM FDC 7/2037 FOR AMDT 5A.
2. ADDED "20:1 IS CLEAR" TO PROFILE LINE 7 -- CONFIRMED CLEAR BY TARGETS EVALUATION; 8260.19H, 8-6-7.G(3).
3. REMOVED CHART NOTE "DME/DME RNP-0.3 NA" AND ADDED PBN REQUIREMENTS NOTE "RNP APCH" -- 8260.19H, 8-6-8.B(1).
4. CHANGED CHART NOTE FROM "USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS" TO "USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS" -- UPDATED PER 8260.19H, 8-6-11.O(7)(D).
5. CHANGED CHART NOTE FROM "SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 26L AND RWY 26R" TO "SIMULTANEOUS APPROACH AUTHORIZED" -- UPDATED PER 8260.19H, 8-6-11.O(7)(A); AIRPORT NOT LISTED IN JO 7110.308A FOR CLOSELY SPACED PARALLEL RUNWAY OPERATIONS.
6. CHANGED "CHART 563 TOWER 300020N/0951300W" TO "CHART 573 TOWER 300020N/0951259W" -- UPDATED TARGETS EVALUATION.
7. REMOVED FAHRENHEIT TEMPERATURES FROM UNCOMPENSATED BARO-VNAV NOTE -- UPDATED PER 8260.19H, 8-6-9.S.
8. CHANGED NOTE FROM "FOR INOP ALSF, INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV ALL CATS VISIBILITY TO 1 1/4, AND LNAV CAT C/D/E VISIBILITY TO 1 3/8" TO "FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV CAT E VISIBILITY TO RVR 6000, AND LNAV CATS C, D AND E VISIBILITY TO 1 3/8 SM" -- UPDATED IAW 8260.3D VISIBILITY TABLES AND INOPERATIVE VISIBILITY TABLES.
9. REMOVED "CHART PLANVIEW NOTE: RADAR REQUIRED" FROM ADDITIONAL FLIGHT DATA -- NOT APPLICABLE TO RNAV APPROACHES; 8260.19H, 8-6-9.G(2) NOTE.
10. ADDED "CHART MANDATORY 4000 AT SILLS" TO ADDITIONAL FLIGHT DATA -- FPT REQUEST.
11. CHANGED LPV DA ALL CATS FROM "287" TO "286", LNAV/VNAV DA ALL CATS FROM "477" TO "476", AND LNAV HAT ALL CATS FROM "473" TO "474" -- TDZE UPDATED FROM "87" TO "86" TO MATCH SURVEY VALUE.
12. CHANGED CRC REMAINDER FROM "F952D50F" TO "940B3D33" -- UPDATED FPAP COORDINATES FROM "295839.3350N/0952002.7885W" TO "295839.3360N/0952002.7930W", LTP COORDINATES FROM "295839.4065N/0951809.0935W" TO "295839.4070N/0951809.0945W", ELLIPSOIDAL HEIGHT FROM "-00015" TO "-00017" AND ORTHOMETRIC HEIGHT FROM "+00259" TO "+00257".

COORDINATED WITH:A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER:**FLIGHT CHECKED BY**

GREGORY MILLS

Digitally signed by

JASON KRETSCHMER

Jan 21, 2021

OFFICE

FICO

DATE

1/14/2021

DEVELOPED BY

JASON KRETSCHMER (DANIEL C JOHNSEN)

Digitally signed by

JASON KRETSCHMER

Jan 21, 2021

OFFICE

AJV-A421

DATE

08/31/2020

APPROVED BY

MARLON ROBINSON

Digitally signed by

JASON KRETSCHMER

Jan 21, 2021

OFFICE

AJV-A420

DATE**TITLE**
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KIAH
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	295839.4070N
LTP/FTP LONGITUDE	0951809.0945W
LTP/FTP ELLIPSOIDAL HEIGHT	-00017
FPAP LATITUDE	295839.3360N
FPAP LONGITUDE	0952002.7930W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	940B3D33

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00257
FPAP ORTHOMETRIC HEIGHT	+00257