

**FEDERAL AVIATION ADMINISTRATION  
 FLIGHT STANDARDS SERVICE  
 GLS STANDARD INSTRUMENT APPROACH PROCEDURE  
 TITLE 14 CFR PART 97.29**

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> GLS RWY 27	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> HOUSTON	<u>STATE</u> TX		
<u>AIRPORT ELEVATION</u> 96	<u>TDZE</u> 86	<u>SUPERSEDED</u> GLS RWY 27	<u>ORIGINAL/AMENDMENT</u> 1D	<u>DATED</u> 08/12/2021	<u>MAG VAR</u> 3E	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> GLSGLS	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 23 FEBRUARY 2023	<u>REQUIRED EFFECTIVE DATE</u> 02/23/2023	<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	IAF	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	PFAF	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

**MISSED APPROACH**

**MAP:**  
GLS: DA

**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                            **PFAF:** REDOC                            **DIST PFAF TO MAP:**                            **DIST PFAF TO THLD:**

4. **MIN ALT:** TRANN 3000, DENTO 2000, FESTA 2000, REDOC 1500

5. **DIST TO THLD FROM PFAF:** 4.27                            **MM:**                            **IM:**                            **150 HAT:**                            **GS ANT:**

6. **MIN GP INCPT:** 1500                            **GP ALT AT PFAF :** REDOC 1500                            **OM:**                            **MM:**                            **IM:**

7. **GP ANGLE:** 3.00                            **34:1:** IS CLEAR                            **20:1:** IS CLEAR                            **TCH:** 55.0

8. **MSA FROM:** RW27 3100

**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.  
 CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.  
 CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 286.  
 CHART PROFILE NOTE: VGSI AND GLS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
 CHART SPEED ICON IN PLANVIEW AT SILLS: MAX 210 KIAS.  
 CHART SPEED ICON IN PLANVIEW AT RDFSH: MAX 210 KIAS.  
 CHART SPEED ICON IN PLANVIEW AT CLSIK: MAX 210 KIAS.

**ADDITIONAL FLIGHT DATA:**

HOLD SW, RT, 031.22 INBOUND.  
 GBAS CHANNEL # 22306  
 REFERENCE PATH ID: G27A  
 CHART MANDATORY 6000 AT RDFSH.  
 CHART MANDATORY 3000 AT SYYKO.  
 CHART MANDATORY 4000 AT GEYGR.  
 CHART MANDATORY 4000 AT CLSIK.  
 CHART MANDATORY 4000 AT SILLS.  
 LTP HAE: -1.7 M

**MINIMUMS:**

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

**ALTERNATE:** NA

CATEGORY:	A			B			C			D			E		
	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
GLS DA	286	1800	200	286	1800	200	286	1800	200	286	1800	200			



**CHANGES - REASONS**

1. COMBINED EQUIPMENT REQUIREMENT NOTES "GPS REQUIRED" AND "RNP APCH" TO SINGLE NOTE "RNP APCH - GPS". - NOTES COMBINED IAW 8260.19I PARA 8-6-8(B)2.
2. ADDED INITIAL SEGMENTS FROM CLSIK TO GRUNG TO SILLS AND FROM RDFSH TO GEYGR TO SYYKO TO TRANN. - ADDED PER FPT/ATC CHECKLIST.
3. REMOVED NOTE DME/DME RNP-0.3 NA. - NOTE NO LONGER APPLICABLE.
5. REMOVED PLANVIEW NOTE RADAR REQUIRED. - ADDED INITIAL APPROACH SEGMENTS ATTACHES TO ENROUTE STRUCTURE.
6. UPDATED INTERMEDIATE AND INTERMEDIATE STEPDOWN SEGMENT RNP VALUE FROM 0.5 TO 1.0. - VALUES UPDATED IAW 8260.19I PARA 4-6-10F.
7. ADDED "20:1 IS CLEAR" TO PROFILE LINE 7. - ADDED IAW 8260.19I PARA 8-6-7G(3)A.
8. REMOVED CAT E MINIMUMS. - MINIMUMS REMOVED PER FPT E-MAIL COORDINATION DUE TO CAT E INABILITY TO ADHERE TO SPEED RESTRICTIONS WITHOUT WAIVERS.
9. UPDATED PROFILE NOTE "AUTOPILOT COUPLED APPROACH NA BELOW (DECISION ALTITUDE)" TO "AUTOPILOT COUPLED APPROACH NA BELOW 286". - NOTE UPDATED IAW 8260.19I PARA 8-6-11O(7).
10. REMOVED NOTE "FOR INOPERATIVE ALS, INCREASE GLS CAT E VISIBILITY TO RVR 4000". - CAT E MINIMUMS REMOVED.
11. REMOVED PROFILE NOTE "GLS UNUSABLE INSDIE DA". - NOTE COVERED UNDER "AUTOPILOT COUPLED APPROACH NA BELOW 286".
13. UPDATED RPI FROM "GGHI" TO "G27A". - UPDATED IAW 8260.19I PARA 4-6-10B.
14. CRC REMAINDER UPDATED FROM "62A57B6A" TO "FA0728AE". - RPI UPDATED.

**COORDINATED WITH:**

A4A  ALPA  AOPA  APA  HAI  NBAA  OTHER: ZHU, IAH APP CON, IAH TWR, AMGR

**FLIGHT CHECKED BY**

PENDING

**OFFICE**

**DATE**

*Digitally signed by*  
**JOHNNIE BAKER**  
Dec 09, 2022

**DEVELOPED BY**

NICHOLAS K. JACKSON *Digitally signed by* **NICHOLAS JACKSON**

**OFFICE**

AJV-A431

**DATE**

07/19/2022

Nov 14, 2022

**APPROVED BY**

JOHNNIE BAKER

*Digitally signed by*

**ERIC N SUSKI**

Dec 07, 2022

**OFFICE**

AJV-A430

**DATE**

**TITLE**  
MANAGER



**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
GLSOR STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARD 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	14
AIRPORT IDENTIFIER	KIAH
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	1
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	5
REFERENCE PATH IDENTIFIER (APPROACH ID)	G27A
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)	
VERTICAL ALERT LIMIT (VAL)	
<u>CRC REMAINDER</u>	FA0728AE

ADDITIONAL PATH POINT RECORD INFORMATION

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



CITY AND STATE <b>HOUSTON, TX</b>	ELEVATION:85	TDZE:86	FACILITY	PROCEDURE NO./AMDT NO./	SUP: GLS RWY 27
	AIRPORT NAME		IDENTIFIER:	GLS RWY 27, 2	AMDT: 1D
	GEORGE BUSH INTCNTL/HOU STON		GIAH	EFFECTIVE DATE: 02/22/2023	DATED: 08/12/2021