

**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 8L | <u>ORIGINAL/AMENDMENT</u> 2 | <u>CITY</u> HOUSTON | <u>STATE</u> TX | | |
| <u>AIRPORT ELEVATION</u> 96 | <u>TDZE</u> 94 | <u>SUPERSEDED</u> GLS RWY 8L | <u>ORIGINAL/AMENDMENT</u> 1B | <u>DATED</u> 12/07/2017 | <u>MAG VAR</u> 3E | <u>EPOCH YEAR</u> 2015 |
| <u>FACILITY</u> GLS | <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> |
|-------------|-----------------|-----------|-----------------|-----------------|--------------|------------|---------------|-----------------|-----------------|
| GUSHR | IAF | BEPEA | | TF | FB | 1.00 | 171.24 | 7.96 | 4000 |
| MAAKO | IAF | KABBY | | TF | FB | 1.00 | 086.69 | 4.99 | 3000 |
| BEPEA | | LIMEE | | TF | FB | 1.00 | 171.36 | 2.97 | 3000 |
| LIMEE | | KABBY | | TF | FB | 1.00 | 123.01 | 3.57 | 3000 |
| KABBY | | KICKM | | TF | FB | 1.00 | 086.74 | 4.24 | 3000 |
| KICKM | IF | FLIBZ | | TF | FB | 1.00 | 086.78 | 7.84 | 3000 |
| FLIBZ | | JACEN | | TF | FB | 1.00 | 086.85 | 3.27 | 2000 |
| JACEN | PFAF | RW08L | MAP | TF | FO | 0.30 | 086.88 | 5.81 | |
| RW08L | MAP | 580 MSL | | CA | | | 086.88 | | 580 |
| 580 MSL | | CLEEP | | DF | FO | 1.00 | | | 4000 |

MISSED APPROACH

MAP:
GLS: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 580 THEN CLIMBING LEFT TURN TO 4000 DIRECT CLEEP AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT KABBY

3. FAC: 086.88

PFAF: JACEN

DIST PFAF TO MAP:

DIST PFAF TO THLD:

4. MIN ALT: KABBY 3000, KICKM 3000, FLIBZ 3000, JACEN 2000

5. DIST TO THLD FROM PFAF: 5.81

MM:

IM:

150 HAT:

GS ANT:

6. MIN GP INCPT: 2000

GP ALT AT PFAF : JACEN 2000

OM:

MM:

IM:

7. GP ANGLE: 3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 59.0

8. MSA FROM: RW08L 3100

PBN REQUIREMENTS NOTES:

RNP APCH - GPS.

NOTES:

CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 294.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART SPEED ICON IN PLANVIEW AT MAAKO: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT GUSHR: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

REFERENCE PATH ID: G08B
LTP HAE: 0.2 M (NAD 83)
HOLD NE, RT, 203.52 INBOUND.
GBAS CHANNEL # 21073
CHART MANDATORY 6000 AT GUSHR.
CHART MANDATORY 3000 AT LIMEE.

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 |
| GLS DA | 294 | 1800 | 200 | 294 | 1800 | 200 | 294 | 1800 | 200 | 294 | 1800 | 200 | | | |



CHANGES - REASONS

1. ADDED PBN REQUIREMENT NOTE "RNP APCH - GPS". - NOTE ADDED IAW 8260.19I PARA 8-6-8(B)2.
2. REMOVED NOTE DME/DME RNP-0.3 NA. - NOTE NO LONGER APPLICABLE.
3. REMOVED NOTE GPS REQUIRED. - GPS REQUIREMENT INCORPORATED IN THE PBN EQUIPMENT REQUIREMENT NOTE.
4. ADDED INITIAL APPROACH SEGMENT FROM GUSHR TO BEPEA TO LIMEE TO KABBY. - ADDED PER FPT/ATC CHECKLIST.
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 MANDATORY ALTITUDE OF 6000 AT GUSHR AND 3000 AT LIMEE. - ADDED PER FPT/ATC CHECKLIST.
8. ADDED "20:1 IS CLEAR" TO PROFILE LINE 7. - ADDED IAW 8260.19I PARA 8-6-7G(3)A.
9. REMOVED CAT E MINIMUMS. - MINIMUMS REMOVED PER FPT E-MAIL COORDINATION DUE TO CAT E INABILITY TO ADHERE TO SPEED RESTRICTIONS WITHOUT WAIVERS.
10. GLS FINAL DA UPDATED FROM 295 TO 294. - TARGETS CALCULATED DA UTILIZED.
11. UPDATED NOTE "USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE DURING SIMULTANEOUS OPERATIONS" TO "USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS". - NOTE UPDATED IAW 8260.19I PARA 8-6-11O(8)D.
12. UPDATED PROFILE NOTE "GLS UNUSABLE INSIDE DA" TO "AUTOPILOT COUPLED APPROACH NA BELOW 294". - NOTE UPDATED IAW 8260.19I PARA 8-6-11O(7).
13. UPDATED RPI FROM "GBZU" TO "G08B". - UPDATED IAW 8260.19I PARA 4-6-10B.
14. CRC REMAINDER UPDATED FROM "0AB8904E" TO "D432B7E5". - LTP/PFAF ORTHOMETRIC HEIGHT UPDATED FROM +00279 TO +00276.

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*Digitally signed by*

NICHOLAS K. JACKSON

NICHOLAS JACKSON**OFFICE**

AJV-A431

DATE

07/19/2022

APPROVED BY

Nov 11, 2022

JOHNNIE BAKER

*Digitally signed by***ERIC N SUSKI**

Dec 07, 2022

OFFICE

AJV-A430

DATE**TITLE**
MANAGER

QUALITY
25
CHECKED

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 | RW08L |
| APPROACH PERFORMANCE DESIGNATOR | 1 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 2 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | G08B |
| LTP/FTP LATITUDE | 300025.7815N |
| LTP/FTP LONGITUDE | 0952131.6470W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +00002 |
| FPAP LATITUDE | 300025.8610N |
| FPAP LONGITUDE | 0951949.0265W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00059.0 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 0008 |
| HORIZONTAL ALERT LIMIT (HAL) | |
| VERTICAL ALERT LIMIT (VAL) | |
| <u>CRC REMAINDER</u> | D432B7E5 |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K4 |
| LTP ORTHOMETRIC HEIGHT | +00276 |
| FPAP ORTHOMETRIC HEIGHT | +00276 |

QUALITY
25
CHECKED

| | | | | | |
|-------------------------------|--------------|-------------------------|---------------------------------|-------------------------------|-------------------|
| CITY AND STATE HOUSTON, TX | ELEVATION: | TDZE:94 | FACILITY IDENTIFIER: GIAH | PROCEDURE NO./AMDT NO./ | SUP: GLS RWY 8L |
| | AIRPORT NAME | GEORGE BUSH INTCNTL/HOU | | GLS RWY 8L, 2 | AMDT: 1B |
| | STON | | | EFFECTIVE DATE: 02/22/2023 | DATED: 12/07/2017 |