Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 04/28/2011	Task #: 20110428218265	Request #: 20110428218265
Procedure: GLS RWY 26 L ORIG		Airport ID: KIAH	Airport: GEORGE BUSH INTERCONTINENTAL/HOUSTON		Reimbursable #:
City: HOUSTON	ST: TX	GPS #:		Estimated Chart Date: 07/26/2012	FICO #:
Fac ID: IAH	Fac. Type: GS	Specialist: SCOTT CORY			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	05/31/2011	02/22/2012	JILL OLSON	
QA:	02/22/2012	02/22/2012	STEVEN SZUKALA	
Liaison:	02/22/2012		Terrell	WAIVER

Procedure Comments: ENROUTE

Remark Type: INFORMATION

OKS 14 . 16

HOUSTON, TX GEORGE BUSH INTERCONTINENTAL/HOUSTON (KIAH) GLS RWY 26L, ORIG ENROUTE-YES FC: 5.29.12 PUB: 7.26.12

ATTACHED FORMS: 8260-3, 8260-10; 8260-9; 8260-2(S): GRIEG-INT, REV 13; JEPNI-INT, REV 3; KERNS-INT, REV 9; LUCEP-INT, REV 3; MKAYE-INT, REV 7; VANNN-INT, REV 2.

CONTACT: JILL OLSON, AJV-353 LEAD, 405 954.9568.

LAAS	APP CRS	Rwy Idg	9402
CH 20662	265°	THRE	94
GJYV		Apt Elev	97

GLS RWY 26L

HOUSTON/GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

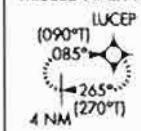
NA — For inoperative ALSF, increase GLS all Cats visibility to RVR 4000, DME/DME RNP-0.3 NA. GPS required. Simultaneous approach authorized with Rwy 26R and Rwy 27. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

ALSF-2

MISSED APPROACH: Climb to 3000 direct LUCEP and hold.

ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL
124.05	120.05 379.1 EAST 124.35 316.15 WEST	120.725 125.35 127.3 135.15 288.25 290.2	118.575 119.95 121.7	128.1

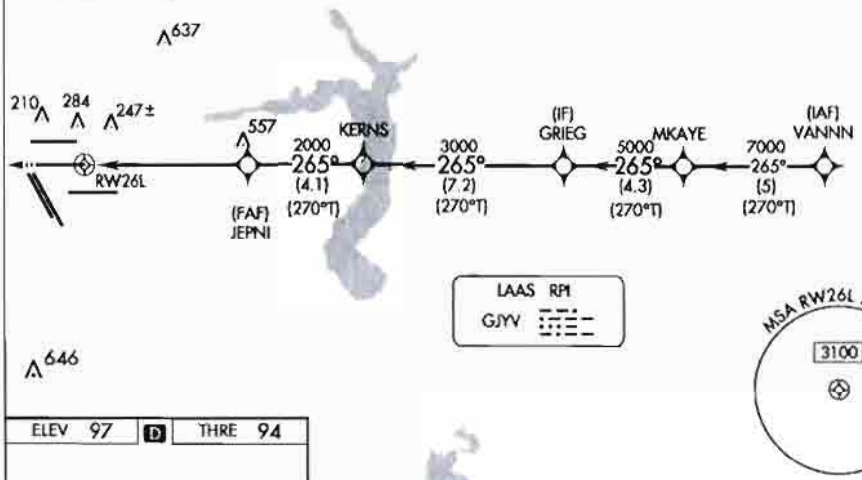
MISSED APCH FIX



GRIEG: 2959.594/09459.808
JEPNI: 2959.608/09512.825
KERNS: 2959.605/09508.124
LUCEP: 2959.540/09547.036
MKAYE: 2959.583/09454.918
VANNN: 2959.567/09449.160
RW26L: 2959.606/09519.516

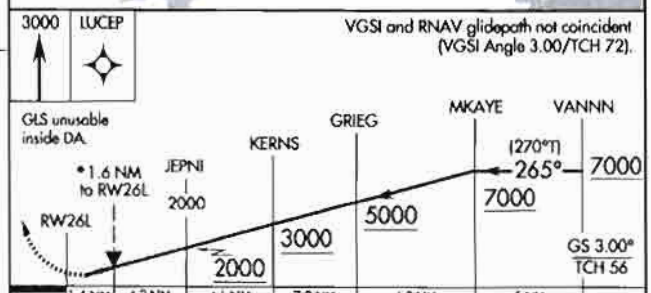
PROTOTYPE - NOT FOR NAVIGATION

RADAR REQUIRED



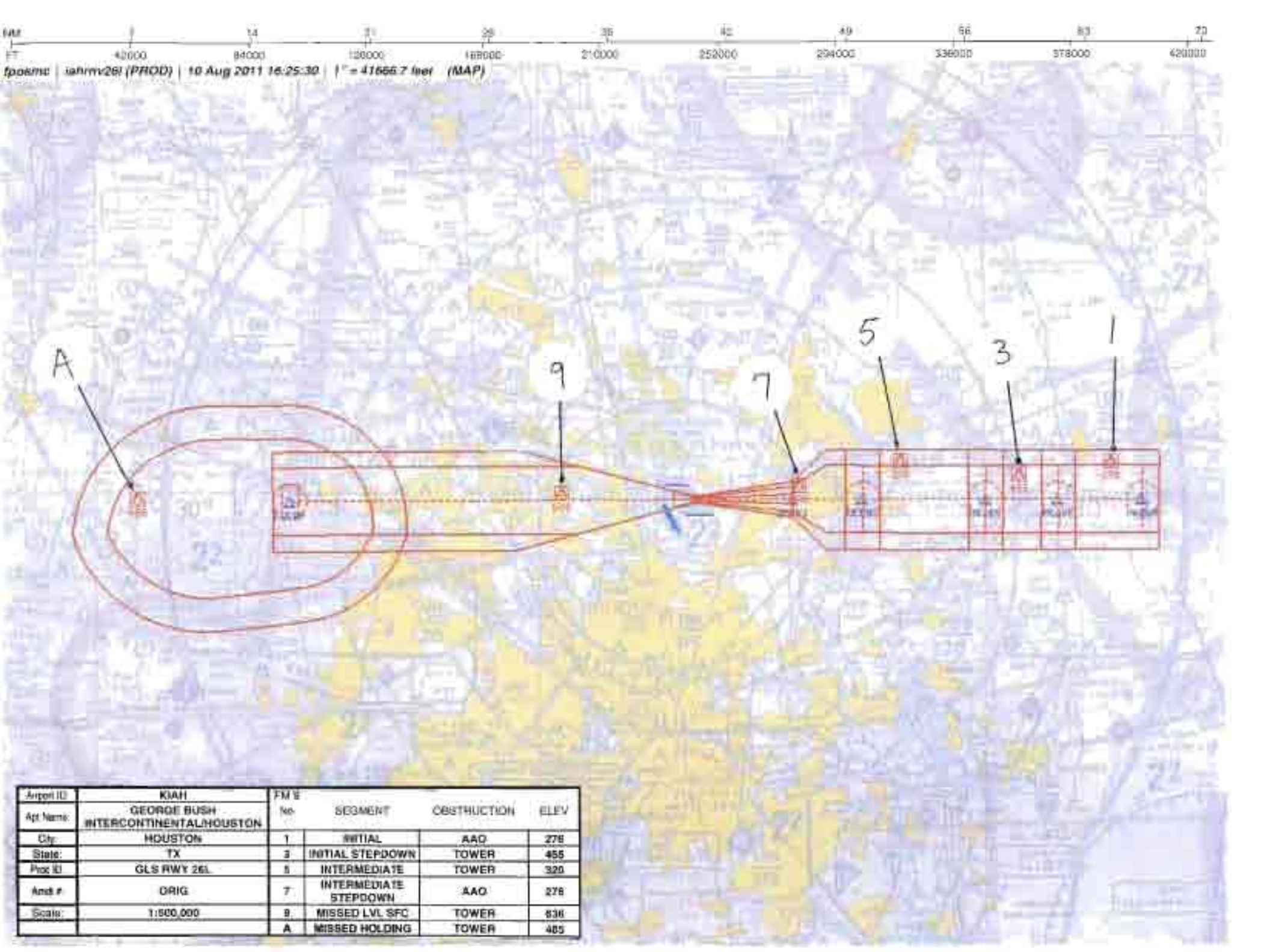
ELEV 97 D THRE 94

265° to RW26L

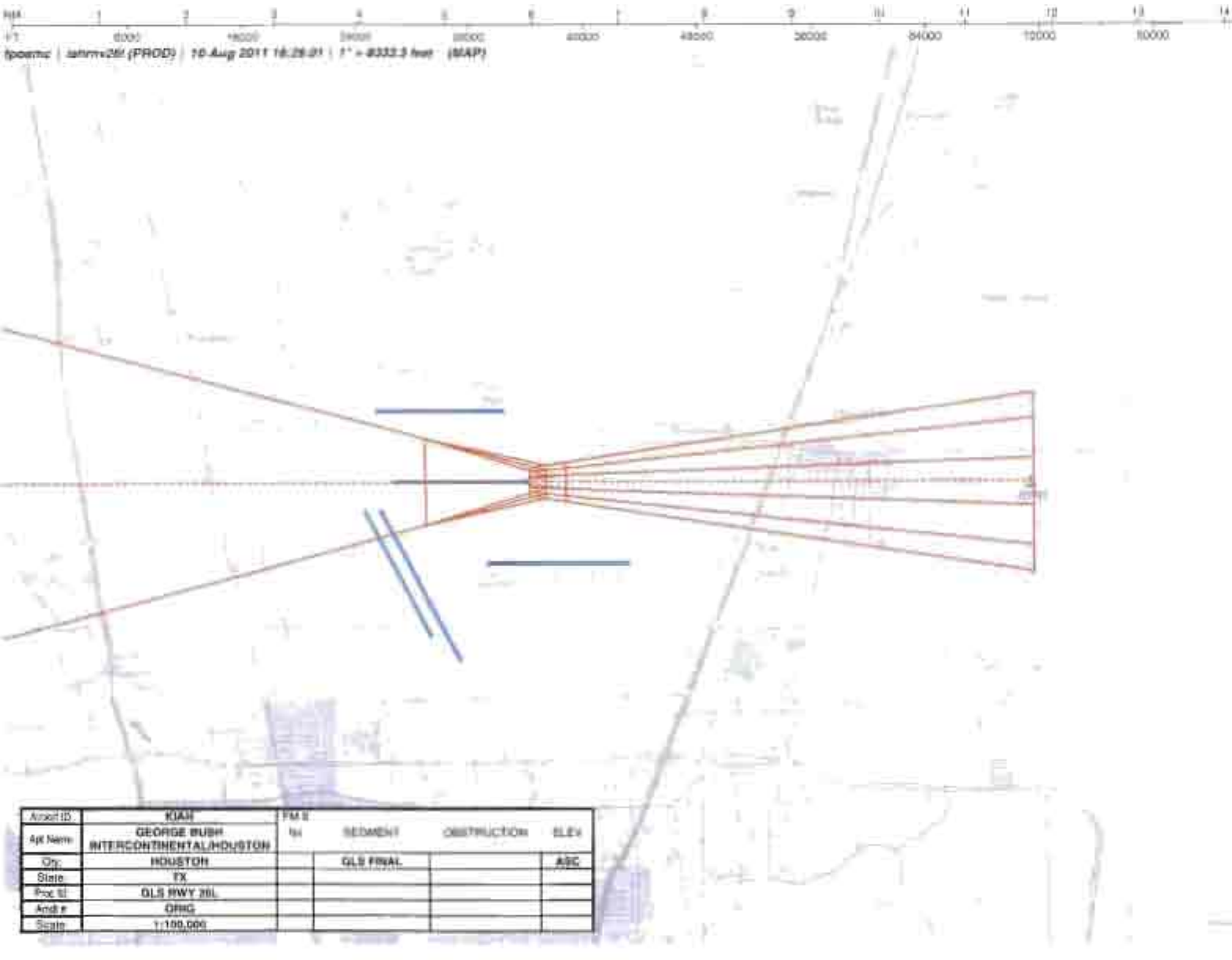


CATEGORY	A	B	C	D	E
GLS DA	294/24 200 (200-½)				

TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys



		FMS			
Airport ID:	KIAH	No.	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	GEORGE BUSH INTERCONTINENTAL/HOUSTON				
City:	HOUSTON	1	INITIAL	AAO	276
State:	TX	3	INTIAL STEPDOWN	TOWER	455
Proc ID:	GLS RWY 26L	5	INTERMEDIATE	TOWER	320
Amdt #:	ORIG	7	INTERMEDIATE STEPDOWN	AAO	276
Scale:	1:500,000	9	MISSED LVL SFC	TOWER	636
		A	MISSED HOLDING	TOWER	485



Airport ID:	KIAH	FMS			
Apt Name:	GEORGE BUSH INTERCONTINENTAL/HOUSTON	fpl	SEGMENT	OBSTRUCTION	ELEV
City:	HOUSTON		GLS FINAL		ASC
State:	TX				
Proc Id:	GLS RWY 26L				
Amdt #:	ORIG				
Scale:	1:100,000				

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

GLS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29

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.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
VANNN (IAF)	MKAYE (FB)	265.21 / 5.00	7000
MKAYE	GRIEG (FB)	265.16 / 4.25	5000
GRIEG (IF)	KERNS (FB)	265.12 / 7.22	3000
KERNS	JEPNI (FB)	265.05 / 4.08	2000
JEPNI (FAF)	RW26L (MAP) (FO)	265.02 / 5.81	
RW26L (MAP)	294 MSL	265.02	
294 MSL	LUCEP (FO)		3000

MISSED APPROACH

MAP: DA

CLIMB TO 3000 DIRECT LUCEP AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD W, RT, 084.73 INBOUND.
DISTANCE TO THLD FROM 200 HATH: 0.45 NM.
LAAS CHANNEL # 20662
REFERENCE PATH ID: GJYV
CHART LOC RWY 26R AND RWY 27.
LTP HAE: 1.1 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT VANNN
3. FAC: 265.02 FAF: ____ DIST FAF TO MAP: 5.81 THLD: ____
4. MIN. ALT: VANNN 7000, MKAYE 7000, GRIEG 5000, KERNS 3000, JEPNI 2000
5. DIST TO THLD FROM OM: 5.81 MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2000 GS ALT AT: JEPNI 2000 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 55.5 34:1 IS CLEAR
8. MSA FROM: RW26L 3100

MAG VAR: 5E EPOCH YEAR: 2000

MINIMUMS

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

ALTERNATE: N A | X |

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
GLS DA	294	2400	200	294	2400	200	294	2400	200	294	2400	200	294	2400	200

NOTES:
CHART NOTE: FOR INOPERATIVE ALSF, INCREASE GLS ALL CATS VISIBILITY TO RVR 4000.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: GPS REQUIRED.
CHART PLANVIEW NOTE: RADAR REQUIRED.
(SEE FORM 8260-10)

QUALITY CHECKED

CITY AND STATE	ELEVATION: 97 THRE: 94 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
HOUSTON, TX	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GIAH	GLS RWY 26L, ORIG	AMDT: NONE
				DATED

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		ROUTINE

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[X]	[ ]	[X]	[X]	[X]	[X]	[X] ZHU, IAH APP CON, IAH TOWER, AMGR

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME:	FIFO	DATE:
SCOTT M. CORY	AJV-353	11/08/2011

APPROVED BY		
NAME:	FIFO	DATE:
LARRY H. STROUT MANAGER	AJV-353	

CHANGES:

1. ORIGINAL PROCEDURE.

REASONS:

1. FPT REQUEST.

03/12/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 11/08/2011.
1. ADDED PROFILE NOTE: GLS UNUSABLE INSIDE DA.

04/02/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 11/08/2011.
1. ADDED ARINC 8260-10 FORMS AND UPDATED PAGE NUMBERS.

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

GLS - STANDARD

INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

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NOTES, (CONT.):
CHART PROFILE NOTE: VGSI AND GLS GLIDEPATH NOT COINCIDENT.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 26R AND RWY 27.
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART PROFILE NOTE: GLS UNUSABLE INSIDE DA.

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 97 THRE: 94	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
HOUSTON, TX	AIRPORT NAME:	GIAH	GLS RWY 26L, ORIG	AMDT: NONE
	GEORGE BUSH INTERCONTINENTAL/HOUSTON			DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	14
AIRPORT IDENTIFIER	KIAH
RUNWAY	RW26L
APPROACH PERFORMANCE DESIGNATOR	1
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	1
REFERENCE PATH IDENTIFIER (APPROACH ID)	GJYV
LTP/FTP LATITUDE	295936.3790N
LTP/FTP LONGITUDE	0951930.9545W
LTP/FTP ELLIPSOIDAL HEIGHT	+00011
FPAP LATITUDE	295936.3000N
FPAP LONGITUDE	0952117.8700W
THRESHOLD CROSSING HEIGHT (TCH)	00055.5
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
CRC REMAINDER	AAECCAEE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00287
FPAP ORTHOMETRIC HEIGHT	+00287

GJAV12 1 CHECKED

CITY AND STATE	ELEVATION: 97 THRE: 94	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
HOUSTON, TX	AIRPORT NAME:	GIAH	GLS RWY 26L, ORIG	AMDT: NONE
	GEORGE BUSH INTERCONTINENTAL/HOUSTON			DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
GLS **INSTRUMENT APPROACH PROCEDURE**
FLIGHT STANDARDS SERVICES TITLE 14 CFR PART 97.29

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HEADER

```
                                                                                                 1         1         1         1
         1         2         3         4         5         6         7         8         9         0         1         2         3
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
HDR      USA       HOUSTON                  TX   IAP       KIAH      GLS RWY 26L         ORIG
```

WAYPOINT

```
                                                                                                 1         1         1         1
         1         2         3         4         5         6         7         8         9         0         1         2         3
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
SUSAEAENRT   GRIEG K40   C     N29593562W094594848                        E0029     NAR           GRIEG
SUSAEAENRT   JEPNI K40   C     N29593645W095124949                        E0030     NAR           JEPNI
SUSAEAENRT   KERNS K40   C     N29593630W095080744                        E0030     NAR           KERNS
SUSAEAENRT   LUCEP K40   C     N29593238W095470214                        E0034     NAR           LUCEP
SUSAEAENRT   MKAYE K40   C     N29593498W094545507                        E0028     NAR           MKAYE
SUSAEAENRT   VANNN K40   C     N29593399W094490960                        E0028     NAR           VANNN
```

AIRPORT

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                                                                                                 1         1         1         1
         1         2         3         4         5         6         7         8         9         0         1         2         3
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
SUSAP KIAHK4AIAH      0     120YHN29590396W095202919E005000097           1800018000C    MNAR    GEORGE BUSH INTERCONTINENTAL/H
```

SEGMENT

```
                                                                                                 1         1         1         1
         1         2         3         4         5         6         7         8         9         0         1         2         3
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
SUSAP KIAHK4FJ26L  AVANNN 010VANNNK4EA0E  A   IF                                 + 07000     18000                     A LS
SUSAP KIAHK4FJ26L  AVANNN 020MKAYEK4EA0E      TF                                 + 07000                               A LS
SUSAP KIAHK4FJ26L  AVANNN 030GRIEGK4EA0E  B   TF                                 + 05000                               A LS
SUSAP KIAHK4FJ26L  AVANNN 040KERNSK4EA0EE     TF                                 + 03000                               A LS
SUSAP KIAHK4FJ26L  J      010KERNSK4EA0E  I   IF                                 + 03000     18000                     A LS
SUSAP KIAHK4FJ26L  J      020JEPNIK4EA0E  F   TF                                 + 02000               RW26L K4PGA LS
SUSAP KIAHK4FJ26L  J      030RW26LK4PG0GY M   TF                                   00150          -300                 A LS
SUSAP KIAHK4FJ26L  J      040         0   M   CA                    0849         + 00294                               A LS
SUSAP KIAHK4FJ26L  J      050LUCEPK4EA0EY     DF                                 + 03000                               A LS
SUSAP KIAHK4FJ26L  J      060LUCEPK4EA0EE R   HM                    08470040     + 03000                               A LS
```

CITY AND STATE:	ELEVATION: 97 TDZE: 94 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HOUSTON, TX	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GIAH	GLS RWY 26L, ORIG	AMDT: NONE DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

GLS **INSTRUMENT APPROACH PROCEDURE**

FLIGHT STANDARDS SERVICES TITLE 14 CFR PART 97.29

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```
RUNWAY                                                                                             1         1         1         1
         1         2         3         4         5         6         7         8         9         0         1         2         3
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
SUSAP KIAHK4GRW26L   0094022650 N29593638W095193095+0000    +0001100094000056150IIJYV3
PATH POINT                                                                                         1         1         1         1
         1         2         3         4         5         6         7         8         9         0         1         2         3
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
SUSAP KIAHK4QJ26L  RW26L001   01GJYV1N2959363790W09519309545+000110300N2959393000W09521178700106750000000555F      AAECCAEE
SUSAP KIAHK4QJ26L  RW26L002E      +00287+00287          20662
MSA                                                                                                1         1         1         1
         1         2         3         4         5         6         7         8         9         0         1         2         3
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
SUSAP KIAHK4SRW26LK4PG                0   18018003125                                                                  M
GLS                                                                                                1         1         1         1
         1         2         3         4         5         6         7         8         9         0         1         2         3
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
SUSAP KIAHK4TGJYV1   020662RW26L                   2650N30000409W095202020KIAH     23  300E0050  00094NARL    00014
```

QUALITY CHECKED

CITY AND STATE:	ELEVATION: 97 TDZE: 94 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HOUSTON, TX	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GIAH	GLS RWY 26L, ORIG	AMDT: NONE DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INITIAL	VANNN	MKAYE	1. AAO	300124.00N/0945118.00W	276 (4E)	1000	AT5724	7000
			2. TERRAIN	300133.00N/0945136.00W	76 (100)		AS1500	1600
INITIAL: STEPDOWN	MKAYE	GRIEG	3. TOWER (48-000177)	300036.07N/0945730.00W	455 (1A)	1000	AT3545	5000
			4. TERRAIN	300133.00N/0945845.00W	76 (100)		AS1500	1600
INTERMEDIATE	GRIEG	KERNS	5. TOWER (48-009899)	300127.90N/0950533.60W	320 (2C)	500	AT2180	3000
			6. TERRAIN	300121.00N/0950521.00W	76 (100)		AS1500	1600
INTERMEDIATE: STEPDOWN	KERNS	JEPNI	7. AAO	300000.00N/0951221.00W	276 (4E)	500	AC98 AT1126	2000
			8. TERRAIN	300000.00N/0951248.00W	76 (100)		AS1500	1600
FINAL	JEPNI	RW26L				ASC		294/200
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	DA	LUCEP				ASC		3000
			9. TOWER (48-001307)	295934.00N/0952824.00W	636 (4D)	1000		1700
ELEV:	126		10. TERRAIN	300018.00N/0954700.00W	204 (200)		AS1500	1700

4. CIRCLING AREA	DISTANCE		HT. ABV. ARPT.	
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL
CATEGORY B	1.5 NM		450	
CATEGORY C	1.7 NM		450	
CATEGORY D	2.3 NM		550	
CATEGORY E	4.5 NM		550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: **RW26L**

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (48-004048)	194/ 26.6	2049 (5D)	3100					

QUALITY CHECK

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
HOUSTON, TX	ELEVATION: 97 AIRPORT NAME: GEORGE BUSH INTERCONTINENTAL/HOUSTON	GIAH	GLS RWY 26L, ORIG	ASW

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
ZHU ARTCC IAH APP CON IAH TOWER	N W S / F A A / A / C — OTHER: ASOS	SOURCE: KIAH DISTANCE: HOURS REMOTE OPERATION:
SATISFACTORY ON:		
X V H F X U H F H F	LOCATION: KIAH	ADJUSTMENT: 0

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3

5. APPROACH & RUNWAY LIGHTING		
	X	ALSF-2 27, 08L, 26R, 26L
		(S) SALS
	X	MALSR 15R, 08R, 09, 33R
	X	HIRL 15R, 33L, 27, 08L, 08R, 26R, 09, 26L, 15L, 33R
		MIRL
		REIL
	X	TDZ 15R, 33L, 27, 08L, 08R, 26R, 26L
	X	C/L 15R, 33L, 27, 08L, 08R, 26R, 09, 26L, 15L, 33R
	X	OTHER (SPECIFY) PAPI-4R 33L, 09 PAPI-4L 15R, 27, 08R, 26L, 15L, 33R

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 15R, 27, 08L, 08R, 26R, 09, 26L, 33R
	INSTRUMENT	NPI-G 33L, 15L
7. RUNWAY VISUAL RANGE	APPROACH	15R, 33L, 27, 08L, 08R, 26R, 09, 26L, 15L, 33R
	MIDFIELD	15R, 33L, 27, 08L, 08R, 26R, 09, 26L, 15L, 33R
	ROLL OUT	15R, 33L, 27, 08L, 08R, 26R, 09, 26L, 15L, 33R
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 94.2
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 55.5

9. FINAL APPROACH COURSE AIMING			
	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: 1

ORDER 8260.19E APPENDIX L PARA 4I; REFERENCE PATH IDENTIFIER (RPI) FORMAT.

PART D - PREPARED BY:	DATE:
SCOTT M. CORY	11/08/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

2. KIAH ASOS ON SERVICE A; HRS OPTN: 24.

BACKUP ALTIMETER SOURCE NOT ESTABLISHED DUE TO REDUNDANT WEATHER SOURCES AT AIRPORT.

VGSI DATA: 3.00/71.2

SEE ATTACHED AIRSPACE LETTER.

8260.54A LPV (200' HATH) CRITERIA USED FOR DEVELOPMENT OF GLS (LAAS) PROCEDURES PER FPO/WORKING GROUP REQUEST.

GLS:
FINAL OCS SLOPE - 34:1

AVERAGE HIGH TEMPERATURE BASED ON 5-YEAR HISTORY (2006-2010), APPLIED TO GRIEG, KERNS; AHT: 39 C.

CIRCLING NA PER CENTRAL FPO AND ATC REQUEST.

SIMULTANEOUS APPROACH AUTHORIZATION AND ASSOCIATED NOTES INCLUDED ON PROCEDURE; PER FPT: AIR TRAFFIC HAS CONFIRMED THAT AS OF 18 JAN 2012 GNSS IS INCLUDED IN THE SIMULTANEOUS OPERATIONS PLAN FOR GROUND-BASED AND SATELLITE-BASED INSTRUMENT FLIGHT PROCEDURES.

PROCEDURE NOT CONNECTED TO ENROUTE STRUCTURE PER FPO/AIR TRAFFIC REQUEST; RADAR REQUIRED FOR PROCEDURE ENTRY.

RADIO FIX AND HOLDING DATA RECORD

NAME: GRIEG **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 295935.62N/0945948.48W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	HOUSTON	I-JYV	LOC/DME		086.96	089.96	18.86	18.86		5000	7000
2	HOBBY	HUB	VOR/DME	H	030.79	035.79		24.93		5000	7000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-JYV	LOC/DME	R-087	19	5000	7000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
HOUSTON (FAC 1) USED TO ESTABLISH FIX COORDINATES
I-JYV DME COORDINATES: 295938.92N-0952131.30W.
I-JYV GS: ESV R087/18/20/50

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	GLS RWY 26L			KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 26L	1, 2		KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (CAT II/III)	1, 2		KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (SA CAT I)	1, 2		KIAH	HOUSTON	TX (US)
IAP	RNAV (GPS) RWY 26L			KIAH	HOUSTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
REMOVED FIX RESTRICTION.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 12/05/2011 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: IAH APP CON
OTHER:

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JEPNI **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 295936.45N/0951249.49W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	HOUSTON	I-JYV	LOC/DME		086.96	089.96	7.55	7.55	45885	2000	4500
2	HOBBY	HUB	VOR/DME	H	004.21	009.21		20.49		2000	4500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
HOUSTON (FAC 1) USED TO ESTABLISH FIX COORDINATES
PFAF DETERMINED IAW FAAO 8260.54A FORMULA 2-16B.
I-JYV DME COORDINATES: 295938.92N-0952131.30W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	GLS RWY 26L			KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 26L	1, 2		KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (CAT II/III)	1, 2		KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (SA CAT I)	1, 2		KIAH	HOUSTON	TX (US)
IAP	RNAV (GPS) RWY 26L			KIAH	HOUSTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
REMOVED FIX RESTRICTION.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 12/05/2011 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: IAH APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: KERNS **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 295936.30N/0950807.44W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	HOUSTON	I-JYV	LOC/DME		086.96	089.96	11.63	11.63		3000	4500
2	HOBBY	HUB	VOR/DME	H	015.00	020.00		21.52		3000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
HOUSTON (FAC 1) USED TO ESTABLISH FIX COORDINATES
I-JYV DME COORDINATES: 295938.92N-0952131.30W.
ESV I-JYV GS: R087/11/20/45

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	GLS RWY 26L			KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 26L	1, 2		KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (CAT II/III)	1, 2		KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (SA CAT I)	1, 2		KIAH	HOUSTON	TX (US)
IAP	RNAV (GPS) RWY 26L			KIAH	HOUSTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
REMOVED FIX RESTRICTION.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 12/05/2011 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: IAH APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: LUCEP **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 295932.38N/0954702.14W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	HUMBLE	IAH	VORTAC	H	270.41	275.41	22.93	22.93		3000	17500
2	NAVASOTA	TNV	VORTAC	H	133.10	141.10		22.76		3000	17500
3	NIXIN	BVP	NDB	MH	265.02	270.02		29.64		3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BVP	NDB	BRG-265	30	3000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	IAH	VORTAC	270.41	090.41	R	1		3000	8000	5	9
2	W	BVP	NDB	265.02	085.02	R	1		3000	8000	5	9
3	W		WP	264.73	084.73	R		4	3000	8000	5	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-013005)	295917.00N/0955708.00W	485	4D
2	200	TOWER (48-013005)	295917.00N/0955708.00W	485	4D
3	200	TOWER (48-013005)	295917.00N/0955708.00W	485	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
HUMBLE (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	GLS RWY 26L		3	KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 26L	1, 2, 3	1, 2	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (CAT II/III)	1, 2, 3	1, 2	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (SA CAT I)	1, 2, 3	1, 2	KIAH	HOUSTON	TX (US)
IAP	RNAV (GPS) RWY 26L		3	KIAH	HOUSTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
REMOVED FIX RESTRICTION.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 12/05/2011 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: IAH APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: MKAYE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 295934.98N/0945455.07W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	HOUSTON	I-JYV	LOC/DME		086.96	089.96	23.10	23.10		7000	8500
2	HOBBY	HUB	VOR/DME	H	037.95	042.95		27.63		3000	17500
3	HUMBLE	IAH	VORTAC	H	079.38	084.38	22.53	22.53		3000	17500
4	NIXIN	BVP	NDB	MH	084.99	089.99		15.62		3000	17500
5	DAISETTA	DAS	VORTAC	H	225.15	230.15		18.34		7000	8500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-JYV	LOC/DME	R-087	24	7000	8500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	IAH	VORTAC	079.38	079.38	R	1		3000	10000	5	10
2	E		WP	085.17	265.17	R		4	3000	10000	5	10
3	E	BVP	NDB	084.99	264.99	R	1		3000	10000	5	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-003137)	300230.90N/0945216.20W	564	2C
2	200	TOWER (48-003137)	300230.90N/0945216.20W	564	2C
3	200	TOWER (48-003137)	300230.90N/0945216.20W	564	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
HOUSTON (FAC 1) USED TO ESTABLISH FIX COORDINATES
I-JYV DME COORDINATES: 295938.92N-0952131.30W.
HOLDING PAT 1 REQUESTED BY ATC.
DIVERGENCE ANGLES (TERPS PARA 287): FAC 1/5 40, FAC 2/3 41, FAC 2/4 47.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	GLS RWY 26L			KIAH	HOUSTON	TX (US)
IAP	GLS RWY 8R		2	KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 26L	1, 2, 5		KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 8R	2, 4	3	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (CAT II/III)	1, 2, 5		KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (SA CAT I)	1, 2, 5		KIAH	HOUSTON	TX (US)
IAP	ILS RWY 8R (SA CAT II)	2, 4	3	KIAH	HOUSTON	TX (US)
IAP	RNAV (GPS) RWY 26L			KIAH	HOUSTON	TX (US)
IAP	RNAV (GPS) Z RWY 8R		2	KIAH	HOUSTON	TX (US)
IAP	RNAV (RNP) Y RWY 8R		2	KIAH	HOUSTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
REMOVED FIX RESTRICTIONS.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 11/29/2011 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: IAH APP CON

QUALITY 4 CHECKED

OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: VANNN **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 295933.99N/0944909.60W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	HOUSTON	I-JYV	LOC/DME		086.96	089.96	28.10	28.10		7000	8500
2	DAISETTA	DAS	VORTAC	H	212.64	217.64		14.88		7000	8500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-JYV	LOC/DME	R-087	29	7000	8500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
HOUSTON (FAC 1) USED TO ESTABLISH FIX COORDINATES
I-JYV DME COORDINATES: 295938.92N-0952131.30W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	GLS RWY 26L			KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 26L	1, 2		KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (CAT II/III)	1, 2		KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (SA CAT I)	1, 2		KIAH	HOUSTON	TX (US)
IAP	RNAV (GPS) RWY 26L			KIAH	HOUSTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
REMOVED FIX RESTRICTION.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 12/05/2011 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: IAH APP CON
OTHER:

QUALITY 4 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **HOUSTON** STATE: **TX**

AIRPORT NAME: **GEORGE BUSH INTERCONTINENTAL/HOUSTON** ID: **KIAH**

PROCEDURE: **GLS RWY 26L** AMDT: **ORIG**

DOCKET#: **NOT REQUIRED**
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **2.98**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **0.87**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **270.02**
4. High Terrain in **FINAL** segment containing 1000' point **105**
5. Distance from **THLD** to 1500' point **4.55**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.20**
7. True Course of **FINAL** segment containing 1500' point **270.02**
8. High Terrain in **FINAL** segment containing 1500' point **105**
9. Threshold Coordinates (if straight-in) ... **295936.38N** / **0951930.95W**
10. ARP Coordinates ..... **295903.96N** / **0952029.19W**
11. Runway Approach End and distance furthest from ARP ..... RWY **27**
    Distance **2.07** NM
12. FAF Coordinates ..... **295936.45N** / **0951249.49W**

REMARKS: Approach/Drawing attached.

US Department of Transportation
Federal Aviation Administration

FLIGHT PROCEDURES STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY

CONTROL NO:

1. Flight Procedure Identification:
Houston, TX (IAH)
George Bush Intercontinental/Houston
GLS RWY 26L

2. Waiver Required and Applicable Standard:
8260.19E APPENDIX L PARA 4i; Reference Path Identifier (RPI). "For ground based augmentation systems (e.g., LAAS) the identifier is defined with a "G" followed by the runway number. The last character, beginning with the letter "A," excluding the letters "C," "L," and "R," will be used to define the first procedure, followed by a succeeding letter for each procedure to a particular runway."

3. Reason for Waiver *(Justification for nonstandard treatment)*:
The current RPI methodology allows multiple procedures at different airports located within the GBAS facility service volume to have the same RPI. For future application of GBAS RPI, Spectrum Engineering and GBAS program office have requested a new format which provides a unique RPI for all procedures at all airports within GBAS facility service volume. New RPI format is still defined with a "G", but is followed by the corresponding ILS system identifier for that runway. RPI for KIAH, GLS RWY 26L: GJYV.

4. Equivalent Level of Safety Provided:

1. The change of RPI methodology supports current systems and future GBAS authentication.

2. Only a small number of aircraft are currently equipped to fly GLS approach procedures.

3. Air carriers must obtain FAA authorization via Operations Specifications (C052) to fly GLS procedures.

5. How Relocation or Additional Facilities Will Affect Waiver Requirement:
N/A

6. Coordination With User Organizations *(Specify)*:

AJV-353: _____

7. SUBMITTED BY

DATE:	Office Identification:	Title:	Signature:
	AJV-35	**Manager, Terminal Products Group**	**Greg Yamamoto**

FAA FORM 8260 - 1 / July 2003 (computer generated)

8. CONTINUATION
Comments:

9. AFS ACTION		Approved
		Disapproved
		Not Required

Comments:

Date:	Routing Symbol:	Signature: