Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 10/10/2002	Task #: 2002101012384901001	Request #: 20021010123849
Procedure: RNAV (GPS) RWY 15 AMDT 1		Airport ID: KIWS	Airport: WEST HOUSTON		Reimbursable #:
City: HOUSTON	ST: TX	GPS #:		Estimated Chart Date: 09/20/2012	FICO #:
Fac ID:	Fac. Type: LP Proc W	Specialist: ROSS BARTO			

Procedure Review

P2

	Rec'd	Rel'd	Full Name	Comments
Lead:	02/14/2012	05/03/2012	JEREL PAWLEY	
QA:	05/03/2012	05/14/2012	STEVEN SZUKALA	
Liaison:	05/14/2012		Alfonso	

Procedure Comments:

Remark Type: INFORMATION

pg 2.14

HOUSTON, TX WEST HOUSTON (KIWS) RNAV (GPS) RWY 15, AMDT 1 (LP) ENROUTE-NO FC: 8.7.12 PUB: 9.20.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): ORENT, REV 2; SHYNR-INT, REV 1; YOKUV, ORIG; ZASGI, ORIG.
FLCK NOTE: REQUEST 4D AC FROM FLIGHT CHECK FOR 590 TOWER, 295751.00N/0960145.00W (MISSED APPROACH HOLDING OBSTACLE).

CONTACT: JILL OLSON, AJV-353 LEAD, 405.954.9568:

WAAS CH 40429 W15A	APP CRS 150°	Rwy ldg 3953 THRE 111 Apt Elev 111

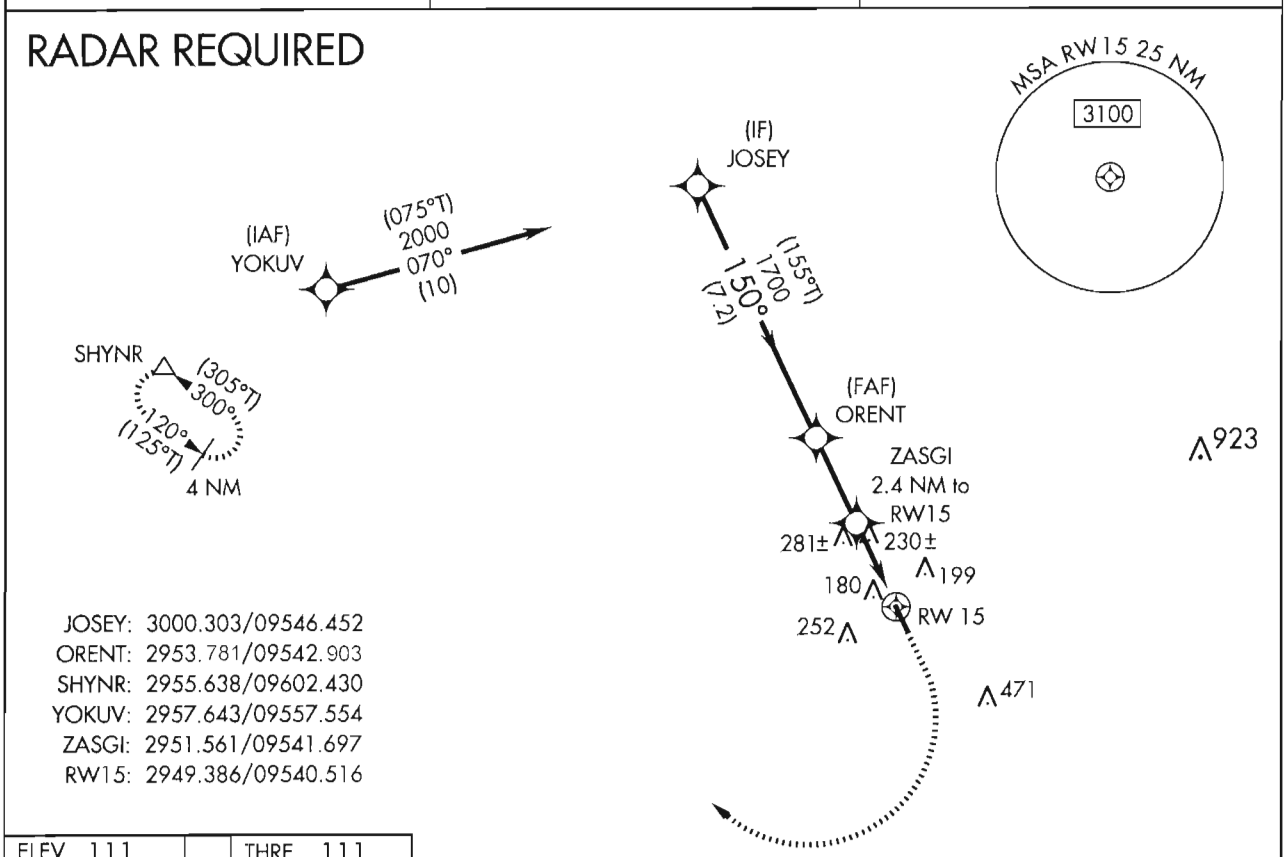
RNAV (GPS) RWY 15
HOUSTON/ WEST HOUSTON (IWS)

When VGSI inop, Circling Rwy 33 NA at night. When VGSI inop, Straight-in/Circling Rwy 15 procedure NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. 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 ¼ mile and LNAV Cat C visibility ⅛ mile.

MISSED APPROACH: Climb to 600 then climbing right turn to 2000 direct SHYNR and hold.

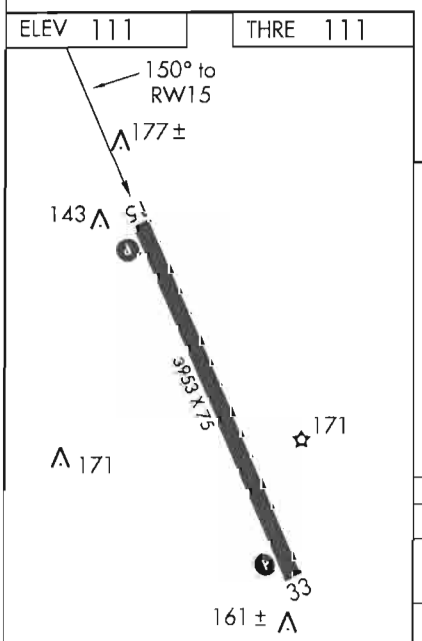
HOUSTON APP CON	CLNC DEL	UNICOM
123.8 257.7	121.15	123.05 (CTAF) L

RADAR REQUIRED

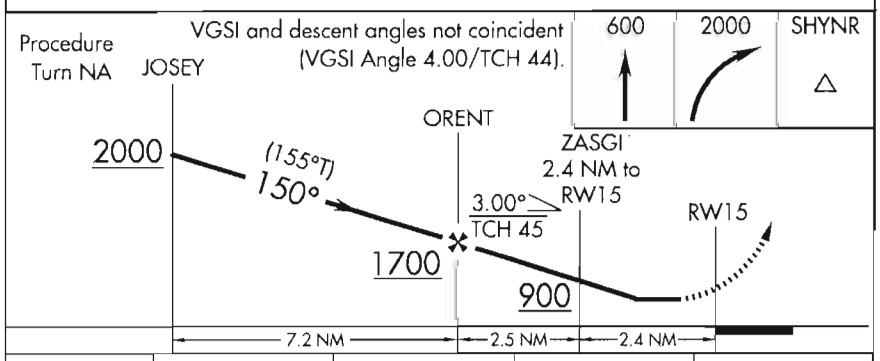


JOSEY: 3000.303/09546.452
ORENT: 2953.781/09542.903
SHYNR: 2955.638/09602.430
YOKUV: 2957.643/09557.554
ZASGI: 2951.561/09541.697
RW15: 2949.386/09540.516

PROTOTYPE-NOT FOR NAVIGATION



REIL Rwys 15 and 33 L
HIRL Rwy 15-33 L

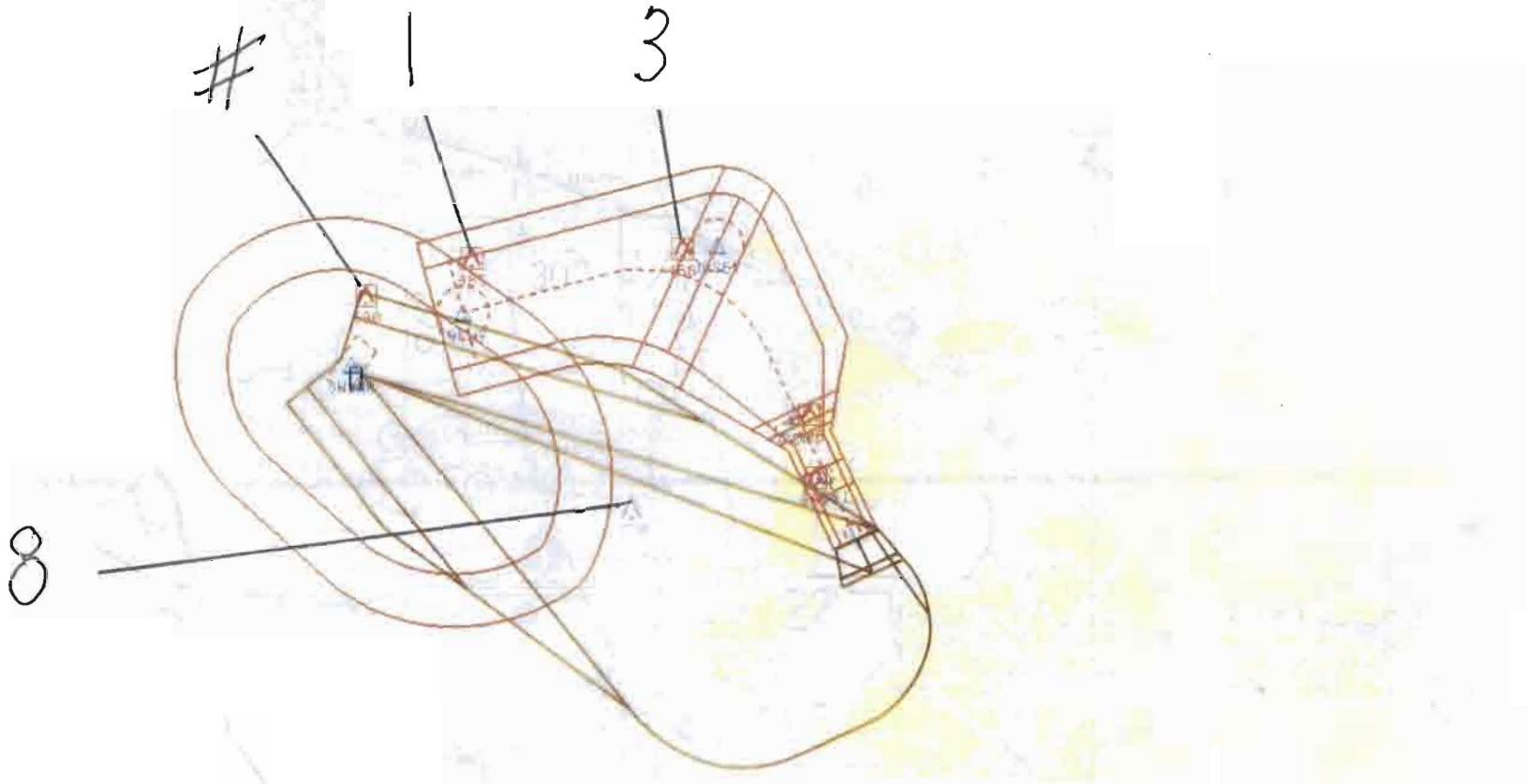


CATEGORY	A	B	C	D
LP MDA	480-1 369 (400-1)			NA
LNAV MDA	540-1 429 (500-1)		540-1¼ 429 (500-1¼)	NA
CIRCLING	540-1 429 (500-1)	580-1 469 (500-1)	580-1½ 469 (500-1½)	NA

NM 7 14 21 28 35 42 49 56 63 70

FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000

fporfb | iwslnav15 (PROD) | 2 Mar 2012 09:11:06 | 1" = 41666.7 feet (MAP)

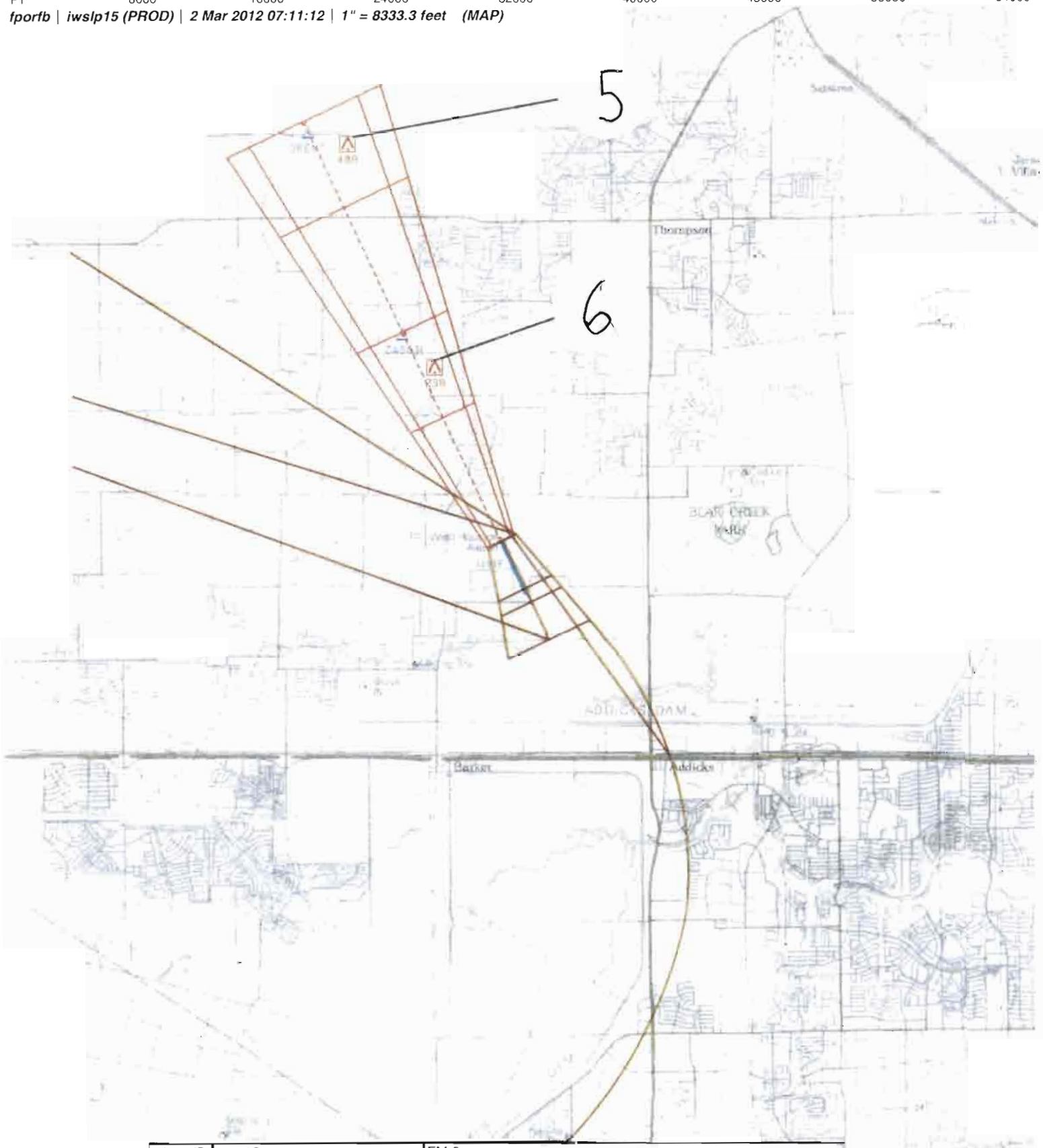


Airport ID:	KIWS	FM 9			
Apt Name:	WEST HOUSTON	No	SEGMENT	OBSTRUCTION	ELEV
		1	INITIAL	TOWER	485
City	HOUSTON	3	INTERMEDIATE	TOWER	466
State:	TX	8	MISS LVL SURFACE	TOWER	770
SCALE	1:500,000	#	HOLDING	TOWER	590
Proc ID:	RNAV (GPS) RWY 15				
AMDT#	1				

NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fporfb | iwslp15 (PROD) | 2 Mar 2012 07:11:12 | 1" = 8333.3 feet (MAP)

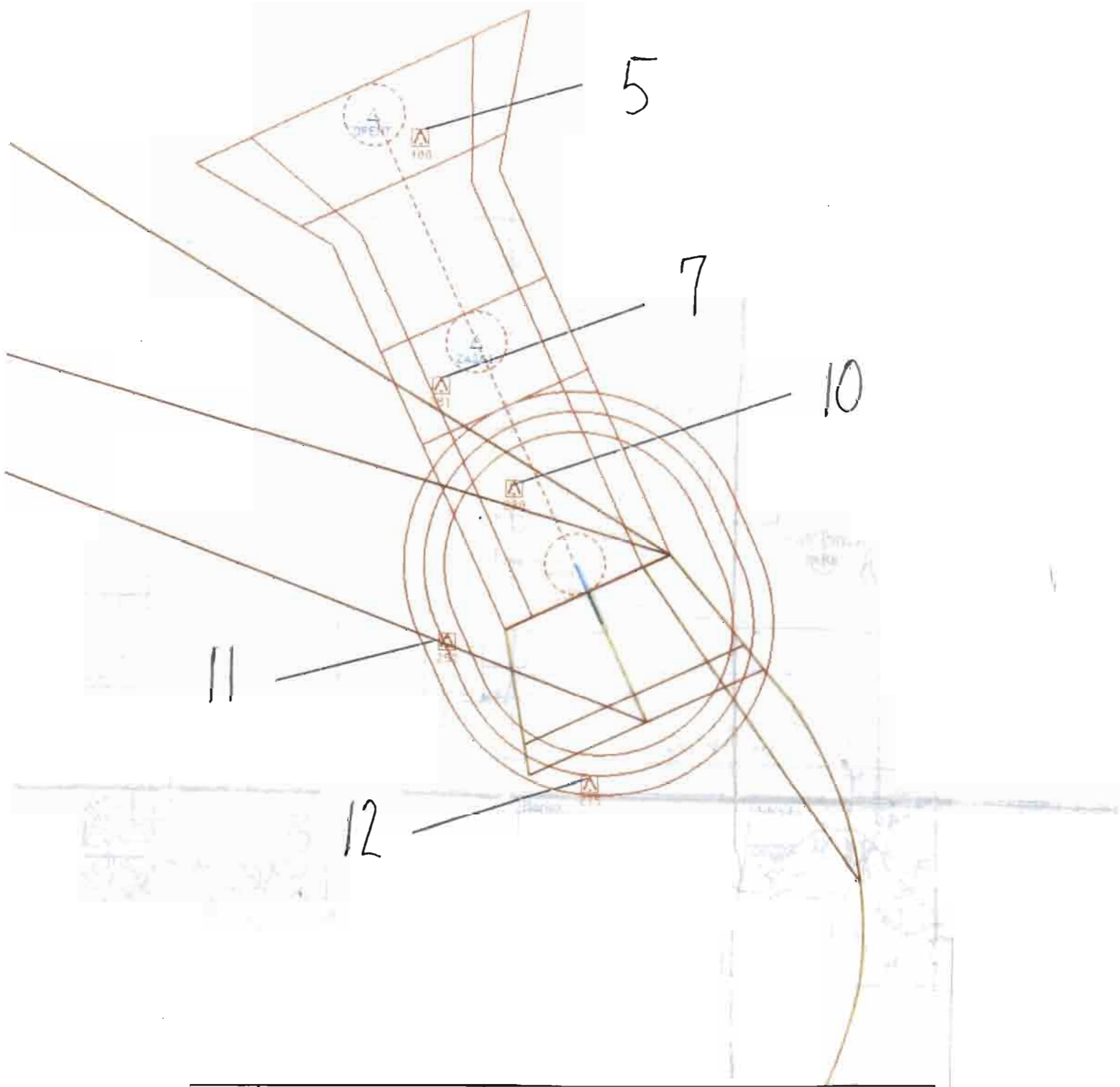


Airport ID	KIWS	FM 9			
Apt Name:	WEST HOUSTON	No	SEGMENT	OBSTRUCTION	ELEV
		5	LP FINAL	AAO	400
City:	HOUSTON	6	LP STEPDOWN	TOWER	230
State:	TX				
Scale:	1:100,000				
Proc ID:	RNAV (GPS) RWY 15				
Amdt #:	1				

NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fporfb | iwslnav15 (PROD) | 2 Mar 2012 07:36:48 | 1" = 8333.3 feet (MAP)



Airport ID	KIWS	FM 9			
Apt Name:	WEST HOUSTON	No	SEGMENT	OBSTRUCTION	ELEV
		5	LNAV FINAL	AAO	400
City:	HOUSTON	7	LNAV STEPDOWN	WATER TOWER	281
State:	TX	10	CIRCLING CAT A	TREE	230
Scale:	1:100,000	11	CIRCLING CAT B	TOWER	252
Proc ID:	RNAV (GPS) RWY 15	12	CIRCLING CAT C	LIGHT POLE	275
Amdt #:	1				

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

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
YOKUV (IAF)	JOSEY (FB)	069.57 / 10.00	2000
JOSEY (IF)	ORENT (FB)	149.63 / 7.20	1700
ORENT (FAF)	ZASGI/2.40 NM TO RW15 (FB)	149.66 / 2.45	
ZASGI/2.40 NM TO RW15	RW15 (MAP) (FO)	149.67 / 2.40	
RW15 (MAP)	600 MSL	149.67	600
600 MSL	SHYNR (FO)		2000

MISSED APPROACH

LP: RW15
LNAV: RW15

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

ADDITIONAL FLIGHT DATA:

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

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 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: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: ____ GS ALT AT: ____ OM: ____ MM: ____ IM: ____
7. GS ANGLE: ____ TCH: 34:1 IS NOT CLEAR
8. MSA FROM: RW15 3100

MAG VAR: 5E EPOCH YEAR: 1995

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
LP MDA	480	1	369	480	1	369	480	1	369		NA				
LNAV MDA	540	1	429	540	1	429	540	1 1/4	429		NA				
CIRCLING	540	1	429	580	1	469	580	1 1/2	469		NA				

NOTES:
CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 33 NA AT NIGHT.
CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 15 PROCEDURE NA AT NIGHT.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
(SEE FORM 8260-10)

QUALITY CHECKED

CITY AND STATE	ELEVATION: 111 THRE: 111	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
HOUSTON, TX	AIRPORT NAME: WEST HOUSTON	RNAV	RNAV (GPS) RWY 15, AMDT 1	AMDT: ORIG
				DATED 11/01/2001

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 ST. AV DIR, ARPT MGR, HOU APP CON

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME: JILL OLSON (ROSS F. BARTO)	FIFO AJV-353	DATE: 02/29/2012

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

CHANGES:

1. MINIMUMS BASED ON HEIGHT ABOVE THLD VS TOUCHDOWN.
2. ADDED LP MINIMUMS.
3. ADDED STEPDOWN FIX (ZASGI).
4. TCH LOWERED FROM 55' TO 45'.
5. FAS OBSTACLE CHANGED FROM 227 POLE TO 281 WATER TOWER.
6. LNAV MDA RAISED FROM 480' TO 540' ALL CATS AND CAT C VISIBILITY RAISED FROM 1 MILE TO 1 1/4 MILES.
7. MISSED APPROACH CLEARANCE LIMIT CHANGED FROM COART TO SHYNR.
8. BARO-VNAV MINIMUMS REMOVED.
9. CIRCLING CAT A MDA RAISED FROM 480' TO 540'.
10. IAH VORTAC FEEDER, TNV VORTAC AND EHURO INITIALS REMOVED.
11. ADDED INITIAL FROM YOKUV.
12. ADDED PLANVIEW NOTE "RADAR REQUIRED".
13. REMOVED BARO-VNAV AND GPS OR RNP-0.3 NOTES.
14. FAF (ORENT) MOVED 605' TO NEW PFAF LOCATION.

SEE 8260-10

REASONS:

1. PRE 8260.3, CH 20.
2, 7, 10, 11. FPT REQUEST.
3. TO OBTAIN LOWER MINIMUMS.
4. MORE OPTIMUM.
5. NEW SURVEY.
6, 9. NEW CONTROLLING OBSTACLE.
8. GQS PENETRATION.
12. RADAR REQUIRED FOR PROCEDURE ENTRY PER ATC REQUEST.
13. NOT REQUIRED.
14. PER 8260.54.
15. REQUIRED AND FAF MOVED.
16. REQUIRED.
17. NO LONGER REQUIRED.
18, 19. REQUIRED.

QUALITY 2 CHECKED

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NOTES, (CONT.):
CHART PLANVIEW NOTE: RADAR REQUIRED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.
CHART NOTE: 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.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 111 THRE: 111	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
HOUSTON, TX	AIRPORT NAME: WEST HOUSTON	RNAV	RNAV (GPS) RWY 15, AMDT 1	AMDT: ORIG
				DATED: 11/01/2001

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:

CHANGES CONT.
15. ADDED DISTANCE FAF TO MAP AND INCREASED DISTANCE FAF TO THLD FROM 4.75 TO 4.85 MILES. 16. ADDED WAAS CHANNEL IN ADDITIONAL FLIGHT DATA. 17. REMOVED FINAL SEGMENT (TF) AND DISTANCE TO THLD FROM 289 HAT FROM ADDITIONAL FLIGHT DATA. 18. ADDED VGSI INOP NOTES. 19. ADDED NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.

REASONS:

QUALITY 2 CHECKED

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KIWS
RUNWAY	RW15
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W15A
LTP/FTP LATITUDE	294923.1670N
LTP/FTP LONGITUDE	0954030.9680W
LTP/FTP ELLIPSOIDAL HEIGHT	+00061
FPAP LATITUDE	294802.4300N
FPAP LONGITUDE	0953947.1700W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1544
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	7EBE14AD

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00337
FPAP ORTHOMETRIC HEIGHT	+00337

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 111 THRE: 111	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
HOUSTON, TX	AIRPORT NAME: WEST HOUSTON	RNAV	RNAV (GPS) RWY 15, AMDT 1	AMDT: ORIG
				DATED: 11/01/2001

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:

QUALITY 2 CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   JOSEY K40    W     N30001817W095462709                      E0033     NAR           JOSEY
        SUSAEAENRT   ORENT K40    W     N29534684W095425415                      E0033     NAR           ORENT
        SUSAEAENRT   SHYNR K40    C   L N29553829W096022578                      E0035     NAR           SHYNR
        SUSAEAENRT   YOKUV K40    W     N29573859W095573321                      E0034     NAR           YOKUV
        SUSAEAENRT   ZASGI K40    W     N29513365W095414180                      E0033     NAR           ZASGI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KIWSK4AIWS     0     039YHN29490550W095402140E005000111         1800018000C    MNAR    WEST HOUSTON

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KIWSK4FR15   AYOKUV 010YOKUVK4EA0E  A    IF                                                18000                A JS
        SUSAP KIWSK4FR15   AYOKUV 020JOSEYK4EA0EE B 010TF                    06960100    + 02000                            A JS
        SUSAP KIWSK4FR15   R      010JOSEYK4EA0E  I    IF                               + 02000     18000                  A JS
        SUSAP KIWSK4FR15   R      020ORENTK4EA1E  F 051TF                    14960072    + 01700                 RW15  K4PGA JS
        SUSAP KIWSK4FR15   R      020ORENTK4EA2WALP        N          ALNAV                                                JS
        SUSAP KIWSK4FR15   R      021ZASGIK4EA0E S  031TF                    14970025    V 0090000920        -300           A JS
        SUSAP KIWSK4FR15   R      030RW15 K4PG0GY M 031TF                    14970024      00156             -300           A JS
        SUSAP KIWSK4FR15   R      040         0  M     CA                    1497        + 00600                          A JS
        SUSAP KIWSK4FR15   R      050SHYNRK4EA0EY  R   DF                               + 02000                          A JS
        SUSAP KIWSK4FR15   R      060SHYNRK4EA0EE  L   HM                    30000040    + 02000                          A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KIWSK4GRW15    0039531497 N29492317W095403097+0000    +0006100111000045075R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KIWSK4PR15   RW15 001 0000W15A0N2949231670W09540309680+000610300N2948024300W09539471700106751544000450F4000007EBE14AD
        SUSAP KIWSK4PR15   RW15 002E      +00337+00337LP        40429

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KIWSK4SRW15 K4PG                0   18018003125                                                                    M
```

CITY AND STATE	ELEVATION: 111 THRE: 111	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HOUSTON, TX	AIRPORT NAME: **WEST HOUSTON**	**RNAV**	**RNAV (GPS) RWY 15, AMDT 1**	AMDT: **ORIG**
				DATED: **11/01/2001**

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:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	YOKUV	YOKUV	010	IAF	IF		FB					
	YOKUV	JOSEY	020		TF		FB	1.0	069.6(074.6T)	010.0	AA 02000	
		JOSEY	010	FACF	IF		FB				AA 02000	
		ORENT	020	FAF	TF		FB	0.5	149.6(154.6T)	007.2	AA 01700	
		ZASGI	021	SDF	TF		FB	0.3	149.7(154.7T)	002.5	AA 00900 GS 00920	
		RW15	030	MAP	TF		FO	0.3	149.7(154.7T)	002.4	AT 00156	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		149.7(154.7T)		AA 00600	
	SHYNR	050		DF	R	FO				AA 02000	
	SHYNR	060		HM	L	FO		300.0(305.0T)	004.0	AA 02000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	JOSEY	N300018.17	W0954627.09	N3000.303	W09546.452
	ORENT	N295346.84	W0954254.15	N2953.781	W09542.903
	SHYNR	N295538.29	W0960225.78	N2955.638	W09602.430
	YOKUV	N295738.59	W0955733.21	N2957.643	W09557.554
	ZASGI	N295133.65	W0954141.80	N2951.561	W09541.697
	RW15	N294923.17	W0954030.97	N2949.386	W09540.516

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW15	00111	45

QUALITY CHECKED

CITY AND STATE	ELEVATION: 111 THRE: 111	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HOUSTON, TX	AIRPORT NAME: WEST HOUSTON	RNAV	RNAV (GPS) RWY 15, AMDT 1	AMDT: ORIG
				DATED: 11/01/2001

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:	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	YOKUV	JOSEY	1. TWR (48-013005)	295917.00N/0955708.00W	485 (4D)	1000	AT515	2000
			2. TERRAIN	295915.00N/0955809.00W	256 (300)		AS1500	1800
INTERMEDIATE	JOSEY	ORENT	3. TWR (48-009581)	295942.00N/0954758.00W	466 (5D)	500		1000
			4. TERRAIN	300203.00N/0954336.00W	201 (200)		AS1500	1700
FINAL: LP	ORENT	ZASGI/2.40 NM TO RW15	5. AAO	295328.41N/0954222.22W	400 (2C)	250	RA48 DG202	900
FINAL: LP STEPDOWN	ZASGI/2.40 NM TO RW15	RW15	6. TWR (48-014227)	295107.40N/0954118.50W	230 (2C)	250		480
FINAL: LNAV	ORENT	ZASGI/2.40 NM TO RW15	5. AAO	295328.41N/0954222.22W	400 (2C)	250	RA48 DG202	900
FINAL: LNAV STEPDOWN	ZASGI/2.40 NM TO RW15	RW15	7. WATER TWR (KIWST0212)	295103.12N/0954205.07W	281 (1A)	250		540
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	RW15 / RW15	SHYNR				ASC		2000
			8. TOWER (48-008098)	294949.86N/0955007.80W	770 (2C)	1000		1800
ELEV:	380/440		9. TERRAIN	295700.00N/0960003.00W	204 (200)		AS1500	1700

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL							
CATEGORY A	1.3 NM	350	429	10. TREE (KIWST0204)	295002.13N/0954113.06W	230 (1A)	300		540
CATEGORY B	1.5 NM	450	469	11. TWR (48-012550)	294831.20N/0954157.10W	252 (2C)	300	HAA	580
CATEGORY C	1.7 NM	450	469	12. POLE (KIWST0592)	294707.24N/0954017.14W	275 (1B)	300		580
CATEGORY D	2.3 NM	550							
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW15

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	MSA
360-360	TWR (48-004048)	142/ 17.6	2049 (5D)	3100					

QUALITY CHECKED

CITY AND STATE	ELEVATION: 111 AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
HOUSTON, TX	WEST HOUSTON	RNAV	RNAV (GPS) RWY 15, AMDT 1	ASW

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
HOU APP CON	N W S / F A A / A / C — OTHER: CTAF	SOURCE: KIWS / KIAH
		DISTANCE: 0 / 19.93
		HOURS REMOTE OPERATION: 0 / 24
SATISFACTORY ON: X V H F, X U H F, H F	LOCATION: KIWS	ADJUSTMENT: 0 / 48

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
	X	HIRL 33 (PCL), 15 (PCL)
		MIRL
	X	REIL 33 (PCL), 15 (PCL)
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-2L 33 PAPI-2R 15
6. RUNWAY MARKINGS	BASIC	15 NSTD-G, 33 NSTD-F
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD — FT. FROM THRESHOLD
	X	ON CENTERLINE — FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: JILL OLSON (ROSS F. BARTO)	DATE: 02/29/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

VDP NOT ESTABLISHED - OBSTACLES PENETRATE VDP SURFACE.

PARA 251, 20:1 PENETRATION.

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TAA NA PER ATC REQUEST.

TREE HEIGHT 75 FT PER FPT.

KIAH ASOS IS ON SERVICE A.

LPV AND LNAV/VNAV NOT DEVELOPED PER FPT (GQS PENETRATIONS).

REQUEST (4D) AC FROM FLIGHT CHECK FOR 590 TOWER, 295751.00N/0960145.00W (MISSED APP HOLDING OBST).

TERPS, VOLUME 1, VISUAL PORTION OF FINAL PENETRATIONS:
RWY 15:
20: 1 PENETRATIONS:
117 TREE (KIWST0052) 294924.65N/0954033.47W (5.04)
146 TREE (KIWST0056) 294926.81N/0954030.31W (30.13)
143 TREE (KIWST0057) 294926.88N/0954030.77W (25.94)
143 TREE (KIWST0061) 294928.21N/0954031.23W (19.01)
144 TREE (KIWST0063) 294926.66N/0954035.62W (18.82)
148 TREE (KIWST0067) 294927.40N/0954035.06W (20.49)
149 TREE (KIWST0072) 294928.68N/0954033.35W (18.87)
151 TREE (KIWST0073) 294928.85N/0954033.52W (19.78)
145 TREE (KIWST0074) 294929.77N/0954031.58W (13.23)
152 TREE (KIWST0075) 294929.91N/0954031.31W (20.10)
155 TREE (KIWST0076) 294929.68N/0954032.00W (22.85)
142 TREE (KIWST0084) 294928.79N/0954036.99W (4.51)
152 TREE (KIWST0088) 294931.41N/0954032.49W (11.03)
147 TREE (KIWST0096) 294930.76N/0954035.92W (2.54)
156 TREE (KIWST0099) 294931.76N/0954034.42W (9.80)
169 TREE (KIWST0101) 294930.57N/0954038.32W (20.89)
159 TREE (KIWST0102) 294931.31N/0954037.31W (9.41)
167 TREE (KIWST0107) 294931.10N/0954039.37W (14.49)
163 TREE (KIWST0110) 294931.66N/0954038.84W (8.93)
159 TREE (KIWST0111) 294932.23N/0954037.54W (4.78)
165 TREE (KIWST0119) 294933.75N/0954036.67W (5.48)
161 TREE (KIWST0120) 294934.67N/0954034.73W (0.93)
165 TREE (KIWST0123) 294934.86N/0954034.86W (3.82)
176 TREE (KIWST0145) 294934.92N/0954041.03W (2.93)

34:1 PENETRATIONS:
183 TREE (KIWST0185) 294944.59N/0954949.69W (10.11)
177 TREE (KIWST0184) 294945.24N/0954039.11W (4.12)
182 TREE (KIWST0181) 294942.88N/0954041.21W (13.13)
184 TREE (KIWST0180) 294944.48N/0954036.05W (16.54)
173 TREE (KIWST0177) 294942.79N/0954038.52W (7.35)
183 TREE (KIWST0176) 294941.86N/0954037.77W (20.67)
167 TREE (KIWST0174) 294940.15N/0954039.54W (7.30)
177 TREE (KIWST0168) 294940.54N/0954033.59W (22.85)
164 TREE (KIWST0167) 294937.00N/0954041.75W (10.31)
179 TREE (KIWST0166) 294936.15N/0954043.40W (25.77)
163 TREE (KIWST0164) 294939.24N/0954035.57W (10.14)
175 TREE (KIWST0163) 294936.23N/0954042.74W (22.28)
166 TREE (KIWST0161) 294938.59N/0954036.93W (13.38)
169 TREE (KIWST0160) 294938.51N/0954037.08W (16.43)
164 TREE (KIWST0157) 294937.06N/0954040.29W (11.77)
157 TREE (KIWST0153) 294935.58N/0954041.88W (6.98)
165 TREE (KIWST0150) 294935.73N/0954040.37W (16.45)
162 TREE (KIWST0146) 294936.11N/0954038.26W (14.57)
CONT.

QUALITY 2 CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.

3. MISSED APPROACH								
	MAP:							
	ELEV:							

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:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

QUALITY CHECKED

CITY AND STATE	ELEVATION: 111 AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
HOUSTON, TX	WEST HOUSTON	RNAV	RNAV (GPS) RWY 15, AMDT 1	ASW

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	N W S / F A A / A / C — OTHER:	SOURCE:
		DISTANCE:
		HOURS REMOTE OPERATION:
V H F / U H F / H F	LOCATION:	ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3
5. APPROACH & RUNWAY LIGHTING		**ALS**
		(S) SALS
		MALS
		HIRL
		MIRL
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

CONTINUED.
155 TREE (KIWST0144) 294937.10N/0954035.75W (7.69)
170 TREE (KIWST0143) 294933.88N/0954043.43W (22.83)
165 TREE (KIWST0142) 294937.67N/0954033.56W (18.59)
169 TREE (KIWST0141) 294937.24N/0954034.29W (22.93)
160 TREE (KIWST0140) 294936.23N/0954036.62W (14.06)
156 TREE (KIWST0139) 294936.08N/0954035.97W (11.18)
150 TREE (KIWST0136) 294934.64N/0954038.80W (5.92)
147 TREE (KIWST0135) 294934.83N/0954037.96W (3.34)
145 TREE (KIWST0134) 294936.45N/0954033.63W (1.78)
161 TREE (KIWST0132) 294932.63N/0954042.77W (17.91)
159 TREE (KIWST0130) 294933.52N/0954040.15W (16.43)
151 TREE (KIWST0128) 294935.43N/0954034.82W (9.20)
155 TREE (KIWST0127) 294933.43N/0954039.39W (13.51)
145 TREE (KIWST0125) 294932.96N/0954040.01W (4.09)
140 TREE (KIWST0115) 294934.37N/0954033.74W (2.25)
141 TREE (KIWST0105) 294933.45N/0954033.11W (6.41)
137 TREE (KIWST0085) 294929.30N/0954035.94W (10.42)

RWY 33:
20:1 PENETRATIONS:
122 RD (KIWST0214) 294845.77N/0954009.93W (10.35)
123 RD (KIWST0218) 294843.86N/0954012,26W (7.02)
122 RD (KIWST0221) 294843.76N/0954012.20W (5.45)
122 RD (KIWST0223) 294843.66N/0954012.16W (4.92)
122 RD (KIWST0224) 294843.66N/0954011.88W (4.39)
122 RD (KIWST0225) 294843.76N/0954011.63W (4.38)
123 RD (KIWST0226) 294844.18N/0954010.31W (4.81)
122 RD (KIWST0229) 294843.87N/0954010.95W (3.60)
123 RD (KIWST0230) 294844.24N/0954009.93W (4.37)
123 RD (KIWST0231) 294843.76N/0954010.27W (2.82)
128 TREE (KIWST0236) 294844.43N/0954007.16W (5.02)
136 TREE (KIWST0238) 294842.30N/0954011.56W (11.58)
139 TREE (KIWST0250) 294842.15N/0954006.13W (3.67)
164 TREE (KIWST0262) 294941.06N/0954004.44W (20.52)
162 TREE (KIWST0269) 294840.38N/0954004.58W (15.68)

RASS PRESSURE PATTERNS SAME
KIWS 111, KIAH 97
RA = 47.79.
SEE ATTACHED AIRSPACE LETTER.

QUALITY CHECKED 2

RADIO FIX AND HOLDING DATA RECORD

NAME: ORENT **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 295346.84N/0954254.15W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 15			KIWS	HOUSTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. FIX MOVED 605 FT NW TO NEW PFAF LOCATION.
2. REVISED FIX COORDINATES.
3. REVISED FIX USE.
4. REMOVED FAC 1 AND FAC 2.
5. DELETED DME FROM FIX TYPE.

DEVELOPED BY: **DATE:** 02/28/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ROSS BARTO)

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SHYNR **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 295538.29N/0960225.78W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

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	262.37	267.37	36.26	36.26		4000	45000
2	INDUSTRY	IDU	VORTAC	L	085.49	093.49	27.25	27.25		4000	17500
3	NAVASOTA	TNV	VORTAC	H	169.55	177.55		21.64		4000	45000

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

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	SE		WP	120.00	300.00	L		4	2000	6000	4	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-010010)	295751.00N/0960145.00W	590	4D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	INDUSTRY	1, 2, 3		KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	INDUSTRY	1, 2, 3		KGLS	GALVESTON	TX (US)
DP	INDUSTRY	1, 2, 3		KAXH	HOUSTON	TX (US)
DP	INDUSTRY	1, 2, 3		KCXO	HOUSTON	TX (US)
DP	INDUSTRY	1, 2, 3		KDWH	HOUSTON	TX (US)
DP	INDUSTRY	1, 2, 3		KEFD	HOUSTON	TX (US)
DP	INDUSTRY	1, 2, 3		KEYQ	HOUSTON	TX (US)
DP	INDUSTRY	1, 2, 3		KHOU	HOUSTON	TX (US)
DP	INDUSTRY	1, 2, 3		KIAH	HOUSTON	TX (US)
DP	INDUSTRY	1, 2, 3		KIWS	HOUSTON	TX (US)
DP	INDUSTRY	1, 2, 3		KSGR	HOUSTON	TX (US)
DP	INDUSTRY	1, 2, 3		KTME	HOUSTON	TX (US)
DP	INDUSTRY	1, 2, 3		KT41	LA PORTE	TX (US)
IAP	RNAV (GPS) RWY 15		1	KIWS	HOUSTON	TX (US)
IAP	RNAV (GPS) RWY 33		1	KIWS	HOUSTON	TX (US)
STAR	BITER	1, 2, 3		K3R9	AUSTIN	TX (US)
STAR	BITER	1, 2, 3		K6R4	AUSTIN	TX (US)
STAR	BITER	1, 2, 3		KAUS	AUSTIN	TX (US)
STAR	BITER	1, 2, 3		KGTU	GEORGETOWN	TX (US)
STAR	BITER	1, 2, 3		KRYW	LAGO VISTA	TX (US)
STAR	BITER	1, 2, 3		KHYI	SAN MARCOS	TX (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. ADDED HOLDING.
2. ADDED PRECIPITOUS TERRAIN EVALUATION.
3. ADDED HOLDING LIMITED TO ESTABLISHED PATTERN.
4. REVISED FIX USE.
5. ADDED IAP TO CHARTING.
6. ADDED WAYPOINT TO FIX TYPE.

DEVELOPED BY: **DATE:** 02/28/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ROSS BARTO)

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

SIGNATURE:

QUALITY 2 CHECKED

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HOU APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YOKUV **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 295738.59N/0955733.21W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 15			KIWS	HOUSTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 02/28/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ROSS BARTO)

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

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZASGI **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 295133.65N/0954141.80W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 15			KIWS	HOUSTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 02/28/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ROSS BARTO)

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

SIGNATURE:

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

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

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

AIRPORT NAME: **WEST HOUSTON** ID: **KIWS**

PROCEDURE: **RNAV (GPS) RWY 15** AMDT: **1**

DOCKET # :
(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 **3.18**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **154.66**
4. High Terrain in **FINAL** segment containing 1000' point **200**
5. Distance from **THLD** to 1500' point **4.85**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **2.11**
7. True Course of **FINAL** segment containing 1500' point **154.66**
8. High Terrain in **FINAL** segment containing 1500' point **200**
9. Threshold Coordinates (if straight-in) ... **294923.17N** / **0954030.97W**
10. ARP Coordinates ..... **294905.50N** / **0954021.40W**
11. Runway Approach End and distance furthest from ARP.....RWY **33**
    Distance **0.33** NM
12. FAF Coordinates ..... **295346.84N** / **0954254.15W**
    (Click to Select)

REMARKS: Approach/Drawing attached. ADDITIONAL AIRSPACE REQUIRED

RADIO FIX AND HOLDING DATA RECORD

NAME: EHURO **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 300040.45N/0954014.18W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** CANCEL

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	JOSEY					063.79	5.04				17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	WEST HOUSTON - RNAV (GPS) RWY 15			KIWS	HOUSTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 10/14/1999

REASON FOR REVISION:
1. ESTABLISH IAF

DEVELOPED BY: **DATE:** **OFFICE:** **NAME:**

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: FTW
ARTCC: ZHU
ATC FACILITY:
OTHER:

CANCELLED

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JOSEY **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 300018.17N/0954627.09W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** CANCEL

REMARKS:
FIX MOVED 2.05NM, FIX NAME NOT CHANGED PER ATC REQUEST (OPERATIONALLY ADVANTAGEOUS).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 15			KIWS	HOUSTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. FIX MOVED 2.05NM NW TO NEW IF LOCATION.
2. REVISED FIX COORDINATES.
3. REMOVED FAC 1 AND FAC 2.
4. REMOVED HOLDING.
5. REVISED FIX USE.

DEVELOPED BY: **DATE:** 02/28/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ROSS BARTO)

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

SIGNATURE:

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

QUALITY 2 CHECKED